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<212> DNA

<213> Homo Sapiens

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<213> Homo Sapiens

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Val Thr Phe Lys Met Asp Ser Thr Leu Thr Ala Ser Gly Ile Arg Gln
35 40 45
Arg Phe Ile Asp Phe Phe Lys Arg Asn Glu His Thr Tyr Val His Ser
50 55 60
Ser Ala Thr Ile Pro Leu Asp Asp Pro Thr Leu Leu Phe Ala Asn Ala
65 70 75 80
Gly Met Asn Gln Phe Lys Pro Ile Phe Leu Asn Thr Ile Asp Pro Ser
85 90 95
His Pro Met Ala Lys Leu Ser Arg Ala Ala Asn Thr Gln Lys Cys Ile
100 105 110
Arg Ala Gly Gly Lys Gln Asn Asp Leu Asp Asp Val Gly Lys Asp Val
115 120 125
Tyr His His Thr Phe Phe Glu Met Leu Gly Ser Trp Ser Phe Gly Asp
130 135 140
Tyr Phe Lys Glu Leu Ala Cys Lys Met Ala Leu Glu Leu Thr Gln
145 150 155 160
Glu Phe Gly Ile Pro Ile Glu Arg Leu Tyr Val Thr Tyr Phe Gly Gly
165 170 175
Asp Glu Ala Ala Gly Leu Glu Ala Asp Leu Glu Cys Lys Gln Ile Trp
180 185 190
Gln Asn Leu Gly Leu Asp Asp Thr Lys Ile Leu Pro Gly Asn Met Lys
195 200 205
Asp Asn Phe Trp Glu Met Gly Asp Thr Gly Pro Cys Gly Pro Cys Ser
210 215 220
Glu Ile His Tyr Asp Arg Ile Gly Gly Arg Asp Ala Ala His Leu Val
225 230 235 240
Asn Gln Asp Asp Pro Asn Val Leu Glu Ile Trp Asn Leu Val Phe Ile
245 250 255
Gln Tyr Asn Arg Glu Ala Asp Gly Ile Leu Lys Pro Leu Pro Lys Lys
260 265 270

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Ser Ile Asp Thr Gly Met Gly Leu Glu Arg Leu Val Ser Val Leu Gln
 275 280 285
 Asn Lys Met Ser Asn Tyr Asp Thr Asp Leu Phe Val Pro Tyr Phe Glu
 290 295 300
 Ala Ile Gln Lys Gly Thr Gly Ala Arg Pro Tyr Thr Gly Lys Val Gly
 305 310 315 320
 Ala Glu Asp Ala Asp Gly Ile Asp Met Ala Tyr Arg Val Leu Ala Asp
 325 330 335
 His Ala Arg Thr Ile Thr Val Ala Leu Ala Asp Gly Gly Arg Pro Asp
 340 345 350
 Asn Thr Gly Arg Gly Tyr Val Leu Arg Arg Ile Leu Arg Arg Ala Val
 355 360 365
 Arg Tyr Ala His Glu Lys Leu Asn Ala Ser Arg Gly Phe Phe Ala Thr
 370 375 380
 Leu Val Asp Val Val Val Gln Ser Leu Gly Asp Ala Phe Pro Glu Leu
 385 390 395 400
 Lys Lys Asp Pro Asp Met Val Lys Asp Ile Ile Asn Glu Glu Glu Val
 405 410 415
 Gln Phe Leu Lys Thr Leu Ser Arg Gly Arg Arg Ile Leu Asp Arg Lys
 420 425 430
 Ile Gln Ser Leu Gly Asp Ser Lys Thr Ile Pro Gly Asp Thr Ala Trp
 435 440 445
 Leu Leu Tyr Asp Thr Tyr Gly Phe Pro Val Asp Leu Thr Gly Leu Ile
 450 455 460
 Ala Glu Glu Lys Gly Leu Val Val Asp Met Asp Gly Phe Glu Glu Glu
 465 470 475 480
 Arg Lys Leu Ala Gln Leu Lys Ser Gln Gly Lys Gly Ala Gly Gly Glu
 485 490 495
 Asp Leu Ile Met Leu Asp Ile Tyr Ala Ile Glu Glu Leu Arg Ala Arg
 500 505 510
 Gly Leu Glu Val Thr Asp Asp Ser Pro Lys Tyr Asn Tyr His Leu Asp
 515 520 525
 Ser Ser Gly Ser Tyr Val Phe Glu Asn Thr Val Ala Thr Val Met Ala
 530 535 540
 Leu Arg Arg Glu Lys Met Phe Val Glu Glu Val Ser Thr Gly Gln Glu
 545 550 555 560
 Cys Gly Val Val Leu Asp Lys Thr Cys Phe Tyr Ala Glu Gln Gly Gly
 565 570 575
 Gln Ile Tyr Asp Glu Gly Tyr Leu Val Lys Val Asp Asp Ser Ser Glu
 580 585 590
 Asp Lys Thr Glu Phe Thr Val Lys Asn Ala Gln Val Arg Gly Gly Tyr
 595 600 605
 Val Leu His Ile Gly Thr Ile Tyr Gly Asp Leu Lys Val Gly Asp Gln
 610 615 620
 Val Trp Leu Phe Ile Asp Glu Pro Arg Arg Arg Pro Ile Met Ser Asn
 625 630 635 640
 His Thr Ala Thr His Ile Leu Asn Phe Ala Leu Arg Ser Val Leu Gly
 645 650 655
 Glu Ala Asp Gln Lys Gly Ser Leu Val Ala Pro Asp Arg Leu Arg Phe
 660 665 670
 Asp Phe Thr Ala Lys Gly Ala Met Ser Thr Gln Gln Ile Lys Lys Ala
 675 680 685
 Glu Glu Ile Ala Asn Glu Met Ile Glu Ala Ala Lys Ala Val Tyr Thr
 690 695 700
 Gln Asp Cys Pro Leu Ala Ala Lys Ala Ile Gln Gly Leu Arg Ala

705 710 715 720
 Val Phe Asp Glu Thr Tyr Pro Asp Pro Val Arg Val Val Ser Ile Gly
 725 730 735
 Val Pro Val Ser Glu Leu Leu Asp Asp Pro Ser Gly Pro Ala Gly Ser
 740 745 750
 Leu Thr Ser Val Glu Phe Cys Gly Gly Thr His Leu Arg Asn Ser Ser
 755 760 765
 His Ala Gly Ala Phe Val Ile Val Thr Glu Glu Ala Ile Ala Lys Gly
 770 775 780
 Ile Arg Arg Ile Val Ala Val Thr Gly Ala Glu Ala Gln Lys Ala Leu
 785 790 795 800
 Arg Lys Ala Glu Ser Leu Lys Lys Cys Leu Ser Val Met Glu Ala Lys
 805 810 815
 Val Lys Ala Gln Thr Ala Pro Asn Lys Asp Val Gln Arg Glu Ile Ala
 820 825 830
 Asp Leu Gly Glu Ala Leu Ala Thr Ala Val Ile Pro Gln Trp Gln Lys
 835 840 845
 Asp Glu Leu Arg Glu Thr Leu Lys Ser Leu Lys Lys Val Met Asp Asp
 850 855 860
 Leu Asp Arg Ala Ser Lys Ala Asp Val Gln Lys Arg Val Leu Glu Lys
 865 870 875 880
 Thr Lys Gln Phe Ile Asp Ser Asn Pro Asn Gln Pro Leu Val Ile Leu
 885 890 895
 Glu Met Glu Ser Gly Ala Ser Ala Lys Ala Leu Asn Glu Ala Leu Lys
 900 905 910
 Leu Phe Lys Met His Ser Pro Gln Thr Ser Ala Met Leu Phe Thr Val
 915 920 925
 Asp Asn Glu Ala Gly Lys Ile Thr Cys Leu Cys Gln Val Pro Gln Asn
 930 935 940
 Ala Ala Asn Arg Gly Leu Lys Ala Ser Glu Trp Val Gln Gln Val Ser
 945 950 955 960
 Gly Leu Met Asp Gly Lys Gly Gly Gly Lys Asp Val Ser Ala Gln Ala
 965 970 975
 Thr Gly Lys Asn Val Gly Cys Leu Gln Glu Ala Leu Gln Leu Ala Thr
 980 985 990
 Ser Phe Ala Gln Leu Arg Leu Gly Asp Val Lys Asn
 995 1000

<210> 172
 <211> 659
 <212> DNA
 <213> Homo Sapiens

<400> 172
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 tggaggcggg cttgagagcg gcggccaggg aggtgcggag cagcctcggc ggcggcgggc 120
 gaaccaaccg agtcggatcc tgaccctaaa acctagtatt ttccacttgt tcatcaatat 180
 ggaaaactca gattccaatg acaaaggaaag tgggtatcag tctgcagcac agcgcgagaag 240
 tcagatggac cgattggatc gagaagaagc tttctatcaa ttgtaaaata acctgagtga 300
 agaagattat aggcttatga gagataacaa tttgctaggg accccagggtg aaagtactga 360
 ggaagagttg ctgagacgac tacagcaaat taaagaaggc ccaccaccgc aaaactcaga 420
 tgaaaataga ggaggagact ctccagatga tgtgtctaag ggtgactcta taatagactg 480
 gcttaactct gtcagacaaa ctggaaatag aacaagaagt gggcaaaagag gaaaccaatc 540
 ttggagagca gtgagtcgga ctaatccaaa cagtgggtga ttccagattc agtttagaga 600
 taaatgttaa cccgtaataa tgggagocaa aattcagaga atgaaaaatga gccatctgc 659

<210> 173
 <211> 192
 <212> PRT
 <213> Homo Sapiens

<400> 173
 Pro Glu Gln Arg Leu Arg Ala Gly Ala Gly Leu Glu Ala Gly Leu Asn
 1 5 10 15
 Gln Leu Leu Ile Gly Gly Gly Leu Glu Ser Gly Gly Gln Gly Gly Ala
 20 25 30
 Glu Gln Pro Arg Arg Arg Arg Pro Asn Gln Pro Ser Arg Ile Leu Thr
 35 40 45
 Leu Lys Pro Ser Ile Phe His Leu Phe Ile Asn Met Glu Asn Ser Asp
 50 55 60
 Ser Asn Asp Lys Gly Ser Gly Asp Gln Ser Ala Ala Gln Arg Arg Ser
 65 70 75 80
 Gln Met Asp Arg Leu Asp Arg Glu Glu Ala Phe Tyr Gln Phe Val Asn
 85 90 95
 Asn Leu Ser Glu Glu Asp Tyr Arg Leu Met Arg Asp Asn Asn Leu Leu
 100 105 110
 Gly Thr Pro Gly Glu Ser Thr Glu Glu Glu Leu Leu Arg Arg Leu Gln
 115 120 125
 Gln Ile Lys Glu Gly Pro Pro Pro Gln Asn Ser Asp Glu Asn Arg Gly
 130 135 140
 Gly Asp Ser Ser Asp Asp Val Ser Asn Gly Asp Ser Ile Ile Asp Trp
 145 150 155 160
 Leu Asn Ser Val Arg Gln Thr Gly Asn Thr Thr Arg Ser Gly Gln Arg
 165 170 175
 Gly Asn Gln Ser Trp Arg Ala Val Ser Arg Thr Asn Pro Asn Ser Gly
 180 185 190

<210> 174
 <211> 610
 <212> DNA
 <213> Homo Sapiens

<400> 174
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 tggctcttgat gacagtagtt tgcccacagt tgggtgtttt gcaaaagcaa ctgcacaaga 120
 caaccccaaa tctgccacag agcagtcagg aactggtatc cgatcagaga gtgagacaga 180
 gtccgaggcc tcagaaatta ctattcctcc cagcaccocg gcagttccac aggtctcccg 240
 ccagggggag gactacggca aaggtgtcat cttctacctc agggacaaag tggctcgtggg 300
 gattgtgcta tggaacatct ttaaccgaat gccaatagca aggaagatca ttaaggacgg 360
 tgagcagcat gaagatctca atgaagtagc caaactattc aacattcatg aagactgaag 420
 cccacagtg gaattggcaa acccactgca gccccctgaga ggaggtcgaa tgggtaaaag 480
 agcatttttt tattcagcag actttctctg tgtatgagtg tgaatgatca agtcctttgt 540
 gaatattttt aactatgtag gtaaattctt aatgttcnca tagtgaaata aattctgatt 600
 cttctaaaaa 610

<210> 175
 <211> 138
 <212> PRT
 <213> Homo Sapiens

<400> 175

Tyr Trp His Gln Ser Met Phe Trp Ser Asp Leu Gly Pro Asp Val Gly
 1 5 10 15
 Tyr Glu Ala Ile Gly Leu Val Asp Ser Ser Leu Pro Thr Val Gly Val
 20 25 30
 Phe Ala Lys Ala Thr Ala Gln Asp Asn Pro Lys Ser Ala Thr Glu Gln
 35 40 45
 Ser Gly Thr Gly Ile Arg Ser Glu Ser Glu Thr Glu Ser Glu Ala Ser
 50 55 60
 Glu Ile Thr Ile Pro Pro Ser Thr Pro Ala Val Pro Gln Ala Pro Val
 65 70 75 80
 Gln Gly Glu Asp Tyr Gly Lys Gly Val Ile Phe Tyr Leu Arg Asp Lys
 85 90 95
 Val Val Val Gly Ile Val Leu Trp Asn Ile Phe Asn Arg Met Pro Ile
 100 105 110
 Ala Arg Lys Ile Ile Lys Asp Gly Glu Gln His Glu Asp Leu Asn Glu
 115 120 125
 Val Ala Lys Leu Phe Asn Ile His Glu Asp
 130 135

<210> 176
 <211> 805
 <212> DNA
 <213> Homo Sapiens

<400> 176
 gggacagcca agtctgtgac ttgcacgtac tcccctgccc tcaacaagat gttttgccaa 60
 ctggccaaga cctgcccctgt gcagctgttg gttgattcca cccccccgcc cggcaccgcc 120
 gtccgcgcga tggccatcta caagcagtc cagcacatga cggagggtgt gagggcgtgc 180
 cccaccatg agcgtgctc agatagcgat ggtctggccc ctccctagca tcttatccga 240
 gtggaagaa atttgcgtgt ggagtattg gatgacagaa acacttttcg acatagtgtg 300
 gtgggtgccct atgagccgcc tgagggtggc tctgactgta ccaccatcca ctacaactac 360
 atgtgttaaca gttcctgcat gggcggcatg aaccggaggg ccatcctcac catcatcaca 420
 ctggaagact ccagtggtaa tctactggga cggaaacagct ttgaggtgcg tgtttgtgcc 480
 tgtcctggga gagaccggcg cacagaggaa gagaatctcc gcaagaaagg ggagcctcac 540
 cacgaagctg cccccaggga gcactaagcg agcactgccc aacaacacca agctcctctc 600
 cccagccaaa gaagaaanac ctggatngag aatatctcac ccttctcanat tctgtgggag 660
 tgagcgcttc cganaatgtt ccgaagagct gnaagaaggg cttgggaact caaaggatgc 720
 ccaaggcttg gaaaaggagc caangggggg gaancaangg gctcaactnc aagccaacct 780
 gaaagttcca aaaaangggg ccagt 805

<210> 177
 <211> 626
 <212> DNA
 <213> Homo Sapiens

<400> 177
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 caggccatgg gaccttctc cggcgggggtg cacgctggat ttctgggtct gccccaccag 120
 caggttttga ggcaggccgt catgagtgc ggtggaaggc tccgagggcg tgggcagggg 180
 ctccggcggg gccacacact tgtggagcta gaaatantgg ggcaggtcct tctctatcac 240
 cagggggtcc tccatgggtc cgtagcgctt caccacgcag cgttctctgt cgtagaggaa 300
 ctgtgganan acggtgtcca aactgtgggg ccacccctgc aaggggctga ggtgcctct 360
 cctgtccgct gcccatcttg gccacggctg tggccagggg aaactggtcc cctaccccc 420
 acagccccct tacctttggt gaagtccac ttgatggcac tggaaaanaa gcacatggac 480
 gtgagcgctc ccaggcagcc cccacagtc cccaaagctt gtctctctc caaggaggcc 540

anaaagggttg	tnagcttccc	ccggtncctc	cacangccac	agtgccccca	aanccccccc	600
aanagccatc	tttaccacca	ggaggg				626

<210> 178
 <211> 793
 <212> DNA
 <213> Homo Sapiens

<400> 178						
gcgcgaggct	gctgtgctg	ccccggccc	gcgcggctg	aaacggagag	gccgagccaa	60
gcgcggcccc	ctcttatgct	gggagatgc	tggagagtag	cggtcgaaa	gcgctgaagg	120
agggcgtgct	ggagaagcgc	agcgacgggt	tgttgacgtc	ctggaaagaaa	aagtgttgca	180
tctcaccga	ggaagggtg	ctgcttatcc	cgcccaagca	gctgcaacac	cagcagcagc	240
agcaacagca	gcagcagcag	cagcaacaac	agccccggga	ggggccggcc	gagccgtccc	300
aaccagtggt	ccccgctgtc	gccagcctgc	agcgcgggt	caagctcaag	gaactgcact	360
tctccaacat	gaagaccgtg	gactgtgtgg	agcgcaagg	caagtacatg	tacttcaactg	420
tgggtgatggc	agagggcaag	gagatcgact	ttcgggtgcc	gcaagaccag	ggctggaacg	480
ccgagatcac	gctgcagatg	gtgcagtaca	agaatcgta	ggccatcctg	gcggtcaaat	540
ccacgcggca	gaagcagcag	cacctggctc	agcancagcc	ccccctcgag	ccgcagccgc	600
agccgcagct	ccaagcccca	accccagcct	tcagcctcaa	gcngcaacc	ccaagcccca	660
atccacaac	cccaagccct	caagcccca	cccaaagccc	tcangcccca	ngcaagntcc	720
aaccgcttat	ncggccatcc	aacattcaan	atccaanact	ctcaangcct	taactnccgc	780
acccaanaac	nct					793

<210> 179
 <211> 786
 <212> DNA
 <213> Homo Sapiens

<400> 179						
aatatcagag	ttttaatttc	aaccagctgg	cacaacaatg	aaagtgtcag	actttctgaa	60
agtactcgag	aaataatgaa	taaattctta	atgttttccc	ctccaccgcc	cttttttatt	120
ctccaagatt	aggaattact	acggattagg	tttttgaaaa	taaagtcttc	tttttgaaaa	180
atggtctaca	ttcagaaatg	tcttagaaca	agcatttaaa	aaaaactaat	aaataatcat	240
aaatcaaaat	acattaaaat	aaaattacag	tacatcatcg	ctcctagaaa	attcaccata	300
caagacgac	ctttcaaagg	ttcataaata	aaagtcttct	tgactcgaaa	tcgtttcctg	360
catcgatgag	aaaagtatgc	agaaaactaa	gaagaatcgc	aagttttcag	taggggtgatg	420
tccaaactac	ttgatctggt	gcggggcgga	gagactgttt	tgcttttgat	ccaagtgaag	480
acaatagaaa	tgtgtctgtc	ccacttcctc	aagtctctcaa	aaccttgctc	tgccggggag	540
ctgccctttt	cangcagagt	tgggaggtgc	tgcggaanaa	ccggtgccc	tgcggtgcc	600
aatgcggtg	tgggtgtggg	tgcngtattt	ggtgccggt	gcnggtgccg	ggtnaagggtg	660
tgggggtcca	antnaaggat	gaaaatgtgg	atnttngnat	nttgattccg	gatacgggggt	720
gggaacctng	cngggggccn	naaggcttgg	ggttggggct	naanggcctg	ggttttttaa	780
ttgggg						786

<210> 180
 <211> 791
 <212> DNA
 <213> Homo Sapiens

<400> 180						
aggacctcag	agaccaggc	tctgtgattg	tggccttcaa	ggaaggggaa	cagaaggaga	60
aggaggggtat	cctgcagctg	cgtcgacca	actcagccaa	gcccagttca	ctggcaccat	120
cctcatggc	ctcttctccg	acttctatct	gtgtgtgtgg	gcaggtgcca	gctgggggtg	180
gagttctgca	gtgtgacctg	gttcaggact	ggttccatgg	gcagtggtg	tcagtgcccc	240

atctctctcac	ctctccaaaag	cccagttctca	cttcatctccc	actgctagcc	tggtgggaat	300
gggacacaaa	attctctgtgt	ccactgtgtta	tgcgtctacg	acggccacgc	ctagagacaa	360
tcctagcctt	gctggttgcc	ctgcagaggc	tgcccgtagc	gctgcctgag	ggtgaggccc	420
ttcagtgctc	ccagagagg	gccattggct	ggcaagaccg	tgccagaaag	gctctggcct	480
ctgaagatgt	gactgtctctg	ttgcgacagc	tggtctgagct	tcgccaacag	ctacaggcca	540
aaccanacc	agaggaggcc	tcagtctaca	cttcagccac	tgccgtgtgac	cctatcagag	600
aaggcagtg	caacaatatt	tcnaangtcc	aagggtgctg	ggagaatgga	gacantgttg	660
accagtcctg	agaacatggc	tccaggaaaag	ggctctgacc	tggaagctacn	gtcctcactg	720
ttgccgcaat	ttgactggnc	ctgttttttg	ganctgctg	aaggcaatcc	cggggctccc	780
cctggaggga	g					791

<210> 181

<211> 747

<212> DNA

<213> Homo Sapiens

<400> 181

agtatccaaa	catactcatt	gttttatttt	taacaaaaga	aatgaaatta	aagatagacc	60
acaggtagag	tcagtaaaatt	cttgtttttt	cctattcttt	ttggtaatta	caacgtacat	120
tgtctctctt	tataataaga	cccaggggga	gaaaagaaaa	ggatgtacaa	tgaagggtaca	180
agttttgaag	cacaaaaata	ttttatgaca	gggacaaaaa	aacaaaaaac	aaacaaaaat	240
tgaagtacag	aaagagggtg	gtggggggcaa	aaataaagg	acgcacttgg	gcttctcaa	300
gatttgtttg	tcctatttca	gactagaatg	aaactgggtt	aggaaatcac	tcctgtatgc	360
tagcaggaat	gttgctggca	agacacttct	gagcatcggg	gtgtggactt	tacgaaccaa	420
ccttttaaca	gtaactctag	gagagaggat	atcaaaaatt	ggcagtgaaa	aattatagat	480
aggcaaaaa	ctctctctga	ggtccaggcc	aggagatagt	angatttaag	aaacaaacaa	540
acaataacaa	ccacaaatgg	acctttgggt	ccactgtcac	aactgttgct	catcagagta	600
ggagaattgt	ancaaaggca	ttaaagaagg	gacaagcaag	ctgaagagcc	tgaatccttg	660
gggtgtgaag	cnatttttgg	gnttcctttc	aagaaaagg	ctgttggnccg	gtggaanggg	720
tcanggaaca	ntatttcacg	ggtcngc				747

<210> 182

<211> 909

<212> DNA

<213> Homo Sapiens

<400> 182

aaacagagag	ccaaatcatg	agtgaactcc	cattcacaaat	tgcttccaag	ataataaaat	60
acctaggaat	ccaactttaca	aaggatgtga	aggacctctt	caaggagaac	tacaaaccac	120
tgctaatga	aataaaagag	gatacaaaaca	aatggaagaa	cattccatgc	tcattgggtag	180
gaagaatcaa	tatogtgaag	atggccatac	tgcccaagg	aatgtataga	ttcaatgccca	240
tcoccatcaa	gtaccatgt	actttcttca	cagaatttga	aaaaactact	caaaagtcca	300
tatggaacca	aaaaagagcc	cacattgcca	agtcaatcct	aagccaaaag	aacaaagctg	360
gaggcatcac	gtacactgtac	ttcaaaactat	actcaaggcc	tacagtaacc	aaaacagcgt	420
ggtactggta	ccaaaacaga	gatataaatc	aatgcaacag	aacagagccc	tcagaaataa	480
tgccacatat	ctacaactat	ctgatctttg	acaaacctga	gaaaaacaag	caatggggaa	540
aggattccct	atttaataaa	tggtgtggg	aaaactggct	agccatatgt	agaaagctga	600
aactggatct	ctctcttata	ccttatacaa	aaattaattg	aagatggnnt	aaaggactta	660
aacgtttagac	ctaaaacctat	aaaaacccta	gaagaaaaac	ctaggcatta	ccattcangg	720
acataggctt	gggcaaggac	ttcctgtcta	aaacaccaan	agcaatggga	ncaaaagcca	780
aaattgcaaa	tggtgattct	aattaactaa	agggcttttg	cacagcnaag	aagctccatc	840
agagngaaca	ggaacntcaa	antgggagaa	attttgaacc	taccatcnga	naaggctaata	900
nccagaatc						909

<210> 183

<211> 708
 <212> DNA
 <213> Homo Sapiens

<400> 183

attatcatta tactttaagt tttaggttac atgtgcacaa tgtgcaggtt agttacatat	60
gtatacatgt gccatgtctgg tgtgctgcac ccattaactc gttatttagc attaggtata	120
tctcctaaatg ctatccctcc cgctccccc caccacacaa cagccccag agtgatgtgt	180
tccccctct gtgtccatgt gttctcactg ttcaattccc acctatgagt gagaatatgc	240
gggtgttgggt ttttttgtcc ttgcatagt ttactgagaa tgatgatttc caatttcac	300
ctgtgcccta caaaggacat gaactcatca ttttttatgg ctgcatagta ttccatggtg	360
tatatgtgcc acattttctt aatccagctc atcattgttg gccatttggg ttggttccaa	420
gtctttgtcta ttgtgaatac tgcgcaata aacatactgt tgcattgtgc ttatagcag	480
catgatttat antcctttgg gtatatactc agtaatggga tggctgggtc aaatggnatt	540
ccaantccan atcccttang aattgccaca cggactccac aanggttgaa ctantttaca	600
gtcccancaa cagngtnaaa gggctcnaaa tcnccaaaat cctctccaag caccngttgt	660
tcccggaact ttttaanggat tgncaattcc aaccggngt caaaagg	708

<210> 184
 <211> 855
 <212> DNA
 <213> Homo Sapiens

<400> 184

agactcacag tctgtctgggt ggcagagaag acagaaacga catgagcaca gcaggaaaag	60
taatcaaatg caaagcagct gtgctatggg aggtaaagaa acccttttcc attgaggatg	120
tggagggtgc acctcctaag gcttatgaag ttgcatttaa gatgggtggt gtaggaatct	180
gtcgacacaga tgaccacgtg gttagtggca acctggtgac ccccttctct gtgatttttag	240
gccatgaggc agcgggcatc gtggagagtg ttggagaagg ggtgactaca gtcaaacacag	300
gtgataaagt catcccgctc ttactcctc agtgtggaaa atgcagagtt tgtaaaaacc	360
cggagagcaa ctactgtctg aaaaatgac taggcaatcc tcgggggacc ctgcaggatg	420
gcaccaggag gtccacctgc aggggggaag ccattcacca ctctctggc accagcactc	480
tctccagta cacggtgggt gatgagaatg cagtggccaa aattgatgca gcctcgcccc	540
tggagaaaat ctgcctcatt ggctgtggat tctcgactgg gttatgggtc tgcagttaac	600
gttgccaagg tcacccagg ctctacctgt gctgtgtgtg gcctgggaag ggtcgcccta	660
tctgctgtta tgggtgttta aagcaactgg aggcancag aatcaattgc ggtggacatc	720
aacaaggaca aattttgcaa agggcaaaag agttgggtgc cactgaatgc catcaacct	780
caagctnca ngnaaaccca tccaggnaag tgctaaaang gaatttaccg attggagggt	840
ttggattttt ccgtt	855

<210> 185
 <211> 865
 <212> DNA
 <213> Homo Sapiens

<400> 185

cacgatgttt caatcaactg atgaagcaag tgtcaggact tactgttgac acagaggagc	60
ggctgaaaag agttattgac ctggctcttg agaagcctat tgatgaaccc agtttctctg	120
tggcttacgc aaacatgtgt cgtatgtctag taacgctgaa agtaccatg gcagacaagc	180
ctggtaacac agtgaatttc cggaaagctg tactgaaccg ttgccagaag gagtttgaaa	240
aagataaagc agatgatgat gtctttgaga agaagcagaa agaacttgag gctgccagt	300
ctccagagga gaggacaagg ctctcatgat aactggaaag agccaaggac aaagcccgcc	360
ggagatccat tggcaacatc aagtttattg gagaactctt taaactcaaa atgctgactg	420
aagccatcat gcatgactgt gtggtgaagc tgctaaagaa ccattgatgaa gaatccctgg	480
agtgcctgtg tcgctgtctc accaccattg gcaaaagact ggactttgaa aaagcaaacg	540

cacgtatgga	ccagtacttt	aatcaagatg	gagaaaattg	tnaaagaaag	aaaaacctca	600
tctatgggatt	cggttcatgc	ttcaaagatg	ttatanacct	aaggctgttg	caattgggggt	660
atctcgaag	agcagatnaa	gggcctnaa	ctatcgaaca	gattcacaaa	ganggctaaa	720
attgaaanaa	caagaatagc	caaaggggaag	gnccaacaac	tcatggacca	anggagaaat	780
agaatacca	ggtgttccaa	aaanttggcc	aaangnnggt	tggaanacn	gttcaagggt	840
ggccangaaa	aantccgggt	actgg				865

<210> 186

<211> 736

<212> DNA

<213> Homo Sapiens

<400> 186

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agagtaacttt	tctcagggta	gcactttngt	ttttttaaac	aattcttgga	gttcgtgtgt	120
ccacagcatt	tccttctgtt	tcaatgttat	gtatgttttg	attactattg	tgatttttta	180
aattttctga	agcaagctga	gaggcaggca	gaaagatttg	atgccaaaaa	aaaaaaaaatc	240
tttcttacct	tggtcacccc	aaactttctc	aaatctggac	taaagtctat	accttaaaac	300
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gttggtttaca	gaaactgcaa	attaaaaaat	tacactggca	tttgcagtcc	ttaaaataaaa	420
ttaaaaagtc	tcaacttttt	tttttttttg	ctaaacattt	ttttaagtat	gagtccttgt	480
ttaaaaagaa	aagatttaaaa	cagaaaaatat	ttcttataaa	taatacatgt	attttgtttt	540
tagtgctccc	gcctcaaggt	ttgaagttaa	cttttancca	ngtacctttt	tcctccatga	600
tcaccttttt	ttctctttcc	cctctcccaa	ntcctgtcac	acgtgggggt	ttccgggcaan	660
aattggcctt	gctgnactgt	gattggggca	anaacgttga	aaaacctttt	taaaaaaaaaa	720
tacttaaaat	tggtgt					736

<210> 187

<211> 946

<212> DNA

<213> Homo Sapiens

<400> 187

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ctgtagaccc	caaataccat	cccaagatta	tcgggagaaa	gggggcagta	attacccaaa	120
tcgggttgga	gcatgacgtg	aacatccagt	ttcctgataa	ggacgatggg	aaccagcccc	180
aggaccaaat	taccatcaca	gggtacgaaa	agaacacaga	agctgccagg	gatgctatac	240
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ttcacgccc	catcatttgt	gcccgcggca	aagccattcg	caaaatcatg	gacgaattca	360
aggtggacat	tcgcttccca	cagagcggag	ccccagacce	caactgcgtc	actgtgacgg	420
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tttccanc	tttggggg	caaggtggct	cccaagaac	cctcccctnt	nggggcccc	900
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<210> 188

<211> 802

<212> DNA

<213> Homo Sapiens

<400> 188
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ggagctngtt atcntaacc gaatgccan gaccttgggt taatgtttaa cantggagca 180
ngtcttganc gggcacggcc angcctggag gancggccgc acacacanc angcgcnagg 240
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tgggtcaaat tgagacaac cantgtgtgg ttgggttcgg gtcanancg tggananggt 360
tncgttcntt ttgatcanta ncntttgggg ccccaaggga nggtcntggg anccacctga 420
nccccaaagc tgggaaatc ctcaaagctg cncatgtcaa gagccttenc antgctgtg 480
gcggtccaaag gtgcgtccc caccacaag cctctggaag gngccttggc ctcttctgt 540
gccgggggtt tcatgtntac ctgcancgcc tcaactgtcca ccaangtcag ctaactgcag 600
gcnnaagaca ggaatnacag ggtcagtcg cccaacaacc ccanatccc gccccgccct 660
ggctcaaac ctgcaacct gctgccttc cgggaanac aatttccac ccttgtntcc 720
ctgaaanccn cctggnctgg ggccntcaaa ggcgttgga ncttccanag gncnccccca 780
gggntccca angggcccac aa 802

<210> 189
<211> 807
<212> DNA
<213> Homo Sapiens

<400> 189
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agcgcccttt gagctgtggg gagggtccag cagcagctac agtgacgact aagactccag 120
tgcatttcta tcttaaccgg gcgcggggga gcgcagatcg gcgcccagca atcacagaag 180
cgacaaggc gtccaaggca aaacatgacc gctgagcca tgagtgaag caagtgaat 240
acattgtgtc agaagcttca tgacttctt gcacactcat cagaagaatc tgaagaaca 300
agtttctctc cagcacttgc aatgaatcaa aacacagata aaatcagtg ttctggaagt 360
aaccttgata tgatggaana cagcaaggaa gaggaacta gctcttcaga aaaatccaag 420
tcttcaggat cgtcacgac aaagaggaaa ccttcaattg taacaaagta tgaagaatca 480
gatgatgaaa aaccttttga tgatgaaact gtaaatgaag atgcgtctaa tgaaaattca 540
gaaaaatgata ttactatgca nagcttgcca aaaggtacag tgattgttca gccagagcca 600
gtgctgaatg aagacaaga tgattttaaa ggggcctgaa tttagaagca gaagttaaaa 660
tgaaaactga naatctcaaa aaacgcggga gaanatgggc ttcatgggga ttgtgancgc 720
tgactggcn ttgtggacaa caaggtcaat caatttcaaa aaggttccat ttatagacaa 780
cccttcaatg caaggctnta ttgttta 807

<210> 190
<211> 608
<212> DNA
<213> Homo Sapiens

<400> 190
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tcgtcatcat catcatccac tgtgacaggc actgatttag ataaggcttc atctccctga 180
gattggcaaa atccagtatg tgaagacagc actaaatttt cagtcacagg cttaattttc 240
tgttcacgc tgcttccctc acctatagaa ttctgatcat catcttctat atcagaagaa 300
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ttctcangaa ctttccctcag catcagatga tgatgangcc actttgtatt cttcttagat 480
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tccttgaa 608

<210> 191
 <211> 786
 <212> DNA
 <213> Homo Sapiens

<400> 191
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 ggagggagcgt ggacaacggc ctctcgctcg tcatcttcag tgactgggtac aacactttctg 120
 ttatgagaaa agtgaagttt tatgatgaaa acacaaggca gtggtggatg ccggataccg 180
 gaggagctaa catcccgct ctgaatgagc tgctgtctgt gtggaacatg ggggtcagcg 240
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 gcagcatcgc gaagtttcca gaagatggcg tcgtgataac acagactttc aaggaccaag 360
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 ggagcaagct cagtcactcc agagaggatg gaaggaaacc atctcatcgg tactccaagt 660
 ttctggangg ccatttggga aaacaaaaac ctcgggctcn acaacctgt ccangcctgt 720
 nctggggcaa gccaanagcc tttaaaccan aacggngccc aattaacctt ttgaaaaaca 780
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<210> 192
 <211> 819
 <212> DNA
 <213> Homo Sapiens

<400> 192
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 aaattacaaa acatggtggc aggtgatact tacaataata aagcgaaggt ctatgtttta 120
 cagatttgtg catgtttcct tcaaatctca gtctgtactg tcattaaaaa gatcatggaa 180
 tctatgttgt tctctcatgat ggaatagtaa aaaaactgca ttccactgac aaaaaaata 240
 gctttgtctc caaatagcac aagtctttta agtgactttt cccaacaata aatatagaaa 300
 atagccttta acaagcgtct tttagcttgg tcagggttgt atcatttgtt tggaaagtac 360
 atccttcccc tgcagtcaga agacccaga cagcctttcc agttctcccg agtctttgtt 420
 gcgcacagct gccgcgggga agtctcactg gggcagagc cactaagtcc ctctgacgg 480
 gatccacagg aatcttctcg atgtaccagg agcctctgcc catcacagga gggcaggccc 540
 atgtagaaca agactctaac aaacctgcag ctggaaactg gattcctttt aaaccaaccc 600
 gccaacacag ctcgntcac ccaccancgc cgtccgtnaa aggggctctc tgggctcac 660
 gggctcagcca ggttgccggt cacaccgaaa ggggtccttg ggcgggtgaa cctgctgcac 720
 gaanctggcg gggngcttca accctgggct tctccggct ttccggcttg ncttgggcct 780
 tgttgaantt gntccacaaa agaaaggcca ggagcaaca 819

<210> 193
 <211> 744
 <212> DNA
 <213> Homo Sapiens

<400> 193
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 tgtctgtctg acctactggc agtcagattg caaatattgg tcagcaagca aacataacct 120
 ctgcagtgcg gcagccctct acccagggtc caccttcagt tatcagcag ggtgctcctc 180
 catcttcgca agtgggtcca cctgctcaaa ctgggattat tcacaggga gttcaacta 240
 gtgtcccaag ccttctctca caattgggta ttgcatocca aagttccttg ttaactgtgc 300
 ctccccagcc acaaggagta gaatcagtag ctcaaggaat tgtttcacag cagttgcctg 360
 cagttagttt ttgcccctct gctagtagta ttctgttac aagtcagggt agttcaactg 420

gtccttctg	aatgccttct	gccccacaa	acttggttc	accacaaaat	atagcacaaa	480
ccctgctac	ccaaaatggt	aatttggttc	aaagtgttaa	gtcaacctcc	cttgatagca	540
actaatacaa	atttgcttct	ggcacaaacag	ataccactaa	gttctaccca	agttctccgc	600
acaatcatta	gtcaggcga	ttggaagcca	aattgaagat	gccaggcggt	gcagcggagc	660
cctccttaag	ttggcttacc	tcaagactaa	tcagttgggt	acaattgggg	ggaatgttca	720
gcaagtttca	agattgggaa	gtta				744

<210> 194

<211> 567

<212> DNA

<213> Homo Sapiens

<400> 194

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ttcaaatgt	gtagagaaac	tgacagaaa	catatgcata	taactactat	acaggtgata	120
tgacagaaac	cttactggga	aattccatttc	attagttaga	actgagcatt	tttcaaaagta	180
ttcaaccagc	tcaattgaaa	gacttcagtg	aacaaggatt	tacttcagcg	tattcagcag	240
ctagatttca	ggattacaca	aagtgcagtaa	ctgtgccaaa	tctttaaatt	tcttttaggt	300
gtgggttttg	tcattgtagca	gtttttatgt	agatcnatat	ntaaaagtcc	acacctcttc	360
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catgggggaag	gatagcccta	gggtccccagc	tanctgttca	ccatttttgt	cactctcata	540
gttttggtgt	ccaatccatt	ggtttttg				567

<210> 195

<211> 771

<212> DNA

<213> Homo Sapiens

<400> 195

gagagaacag	agcaacaaga	gcacaaagaa	aaaaagaaga	aatgaacaga	ataagaacat	60
tagttgacaa	tgcatacagc	tgtgatccaa	ggataaaaaa	gttcaaggaa	gaagaaaaag	120
ccaagaaaga	ancanaaaaag	aaagcaaaaag	cagaagctaa	acggaaggag	caagaagcta	180
aagaaaaaca	aagacaagct	gaattagaag	ctgctcggtt	agctaaggag	aaagaagagg	240
aggaaagtcag	acagcaagca	ttgctggcaa	agaaggaaaa	agatatccag	aaaaaagcca	300
ttaagaagga	aaggcaaaaa	tttcgaaact	catgcaagac	ctggaaatcat	ttttctgata	360
atgaggcgaga	gcgggtttaa	atgatggaag	aagtggaaaa	acttttgtgat	cggtctgaac	420
tggaagcttt	acagtgtctg	aatgaaacac	tcacatcatg	cacaaaaagaa	gtnggaaaagg	480
ctgcttttga	aaaacagata	gaagaaataa	atgagcaaata	cagaaaaagag	aaagagggaag	540
ctgaggctcg	tatgcgacaa	gcattctaaga	acacagagaa	atcaactggt	ggaaggtgga	600
aaatggaagt	aaaaattggg	cacaaagatg	ntctacaatt	actaattna	aagctgtgaa	660
tctgttnc	tgctggaaca	aantcaagat	gggaagttat	tgccaantac	atgaacatac	720
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<210> 196

<211> 561

<212> DNA

<213> Homo Sapiens

<400> 196

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ctacttgcat	tcagcacttg	ttcttgagca	gctttctttg	cttttaccat	ctcgacaagt	120
tccttgatc	gtttcatgca	gtccttcttt	gtcctgcccag	gcaccgcttc	tgctattttt	180
tcccatcttt	cagggtgtatt	tactgggtat	gttttcaaag	ctgtttccaa	aagcttctgt	240
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cgctgtgtctg	cttgaggtag	cactccatgt	tcttttttga	acttatcaaa	tgcccttttta	360
tttangtcag	ctttttgatg	agggtcaagt	ttttggagac	tcttttgctt	gccataaaca	420
tctttggan	gttcttttga	ctccaagagg	aagaangnt	ngttcatgtn	antangan	480
aacgtcccat	ctggaanttt	gtttcnacca	gggaacanac	tcacaagctt	taactaagta	540
antgtnnat	naccgncngn	c				561

<210> 197
 <211> 691
 <212> DNA
 <213> Homo Sapiens

<400> 197						
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cgcagcctca	gccccagcag	cctccacccc	caccccccctc	ccagcagcag	cccccgctgt	120
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ctggaagcac	tggaacata	agtatctatg	agaggattcc	aggggatttt	ggtgccggca	240
gctactctca	accatcagcc	accttcagcc	tagccaagct	gcagcagctg	accaacacca	300
ttatggaccc	tcatgccatg	ccttatagcc	attctctctg	tgtgacttcc	tatgcaacca	360
gtgtttctct	gtccaataca	ggactggctc	agctggctcc	atctcctccc	ttagctggga	420
ctcctcaagc	acangccacc	atgacgccac	ccccaaactt	ggcatccact	accatgaacc	480
tcacatctcc	tctgtctcag	tgcaacatgt	ctgccaccaa	cattggcatt	cctcacacgc	540
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ggcactgccc	tctgcnctg	ctcaccanna	ngcagctggg	atgggcccgt	tccccaatcg	660
ggcagtttgc	caatgcaang	gcttggggccc	t			691

<210> 198
 <211> 646
 <212> DNA
 <213> Homo Sapiens

<400> 198						
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agaatggagt	tgaggagcaac	acatgaactt	gcgttataac	attctgtctg	ccagatctgc	120
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tgtgactct	gattcacagg	ggatgaactc	aggatctcaa	aagacataca	aaaactanag	240
gtatgtatca	cttaagttag	tacgaaactc	acaccgctgat	ctccctctctg	acacacatct	300
gcgcatctc	ttccaacata	aaatanactg	tttcaatggt	ttgtcagtta	tttttcaaat	360
cactaanatg	tacagtcctc	caccaacaat	ttaagaaaga	acctaagagg	caaactcactg	420
gggactgcta	tttgagtttt	atcagtcaaa	gggtcaagca	tcaanacctt	cagttancat	480
ttcaaagtac	atactangaa	acancgaggc	tgggtggcgt	tgtgtgcgtt	anggtgatt	540
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tcctcnattc	ctccaaaagg	gctgggattt	ggatttgga	aagta		646

<210> 199
 <211> 811
 <212> DNA
 <213> Homo Sapiens

<400> 199						
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gatgaaatta	tttctaagac	aaagcaagta	attcaggggc	tggaagcttt	gaagaatgag	180
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ggcctgagtg	aggcacaggt	tatgatggct	ttgtcaaatc	acctgaatgc	tgtggagtcc	360

gagaagcaga	aactgcgtgc	gcaggttcgt	cgtctgtgcc	aggagaatca	gtggctacgg	420
gatgaactcg	ccaacacgca	gcagaaactg	cagaagagtg	agcagtcgtg	ggctcaactg	480
gaggaggaga	agaagcatct	ggagtttatg	aatcagctaa	aaaaatatga	tgacgacatt	540
tcccacatcc	aggacaaaaga	cactgattct	accaaagagc	ctctggatga	ccttttcccc	600
aatgatgaag	acgacccagg	gcaaggaaatc	cagcagcagc	acagcagtg	agccgcggct	660
gcccagcaag	gcngctacna	agattccccg	gcggctgcgg	acgctccaca	acctgggtga	720
ttcagttcgc	ctcnncangg	ggcgctacc	aaggtaacct	gttgccect	cctggcaaa	780
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<210> 200

<211> 763

<212> DNA

<213> Homo Sapiens

<400> 200

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agttcacaga	gaggtgcagc	tctgacaaga	tcctagaggc	tgctagacac	agcggggcagc	180
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gtcacggcgc	gctaggccat	gggacgctga	gcaagtcagt	taaccagccc	gagcttcatt	300
ttctctattt	cctccccctc	gtcagggccca	ctctcgtact	tgaccacgtc	cacgttgagg	360
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tgttttgtaa	cattgtcaag	accctgttta	cgagacctca	tagcagcttc	ttctaacgtt	480
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gtttaatttc	aacatctaca	gaaccaaact	ccctttcatg	tgcaacaagt	agaatcnctt	720
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<210> 201

<211> 717

<212> DNA

<213> Homo Sapiens

<400> 201

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agaatganca	caattccatt	ttcacaagtt	tgctggagac	actgaagtgt	ttgaagaaa	180
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ttgcagccgc	ggctgcccga	gcaaggcgcc	tacgagattc	ccgcgcggc	tgccggagcc	660
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<210> 202

<211> 647

<212> DNA

<213> Homo Sapiens

<400> 202

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caagattagt	agagaaaagc	agaatgccca	aatttcacac	acagactaca	cagcaaatgc	120
tactggggca	tatcctaggg	agaccggag	tccgagcggg	gccccagggy	ctctaagtac	180
cacggagcac	gtcgggcaca	tgcccttgctg	taaggcttag	ttacgtcaac	aggtcaccgt	240
catgccattg	caacaacacc	ttgtgtgaca	cttaactacc	tgttaccaaa	gtgaacagct	300
aatcgctcct	aattttttaa	ctcgtgtatt	acacagtaaa	tggattttan	taatacagtt	360
tatatatta	agtacatac	tggcaaaagt	acatgtatac	agaatcagg	aacccccca	420
aaaaggacag	cagcacggaa	aggaatggcc	agttcacaga	nanctgcagc	tctgacaaga	480
tcctagangc	tgctagacac	agcgggcagc	actggganaa	gagaagggaa	gctgcgggag	540
gcgccaaccc	gtcatgccag	gggacagtgt	ganagtcacg	ggnccgggta	ngccaatggg	600
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<210> 203

<211> 786

<212> DNA

<213> Homo Sapiens

<400> 203

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tggaggaggga	gcagcaggcc	ctccagaaga	agctgaaggg	gacagaggat	gaggtgga	180
agtattctga	atccgtgaag	gaggccccagg	agaaactgga	gcaggcccgag	aagaaggcca	240
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aagcaaaagt	ttgcnaaaa	ggtctgtggg	caaaaatttg	gngaaaaaac	catcnaatga	780
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<210> 204

<211> 738

<212> DNA

<213> Homo Sapiens

<400> 204

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cgttctctct	cttgccactg	gccaaaggtct	cttctaggtc	atcgatgggt	ttctccaaact	180
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tcctggccac	ctcttcata	ttgoggtctg	aatcctcagc	gatgtgcttg	gcctcttca	480
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tanccaangc	gctcctgggc	ccggtcaanc	tcctctctca	caagctgaat	gcggcggttc	660
aagggaaggca	anatctgcct	caacaacaat	tggtcttctt	cncggcngc	tcgaattttc	720
ncnnggggac	tccttcaa					738

<210> 205

<211> 818

<212> DNA

<213> Homo Sapiens

<400> 205

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gttctctctc	tggcactcgg	ccaaggctct	ttctaggcca	tcgatgggtt	tctccaaact	180
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cagtttgtac	tcctcttcac	atttatcttc	tttgggtgaa	tactctctct	ctgagggccat	300
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ctcggccacc	tcagccctct	cctccgagcg	ctccagctct	ccttccaggga	tcaccanctt	420
cctggccacc	tcttcatatt	tgcggtctga	atcctcagcg	atgtgcttgg	cctccttcag	480
ctgcatctcc	tgacgttcca	tcttctcttc	atccttcaag	gcccggtttt	cgatgancct	540
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nctngcncca	atttctctcn	ggggcctncc	tttcangggg	tnaagaanaa	atttcaaat	780
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<210> 206

<211> 927

<212> DNA

<213> Homo Sapiens

<400> 206

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tcgaccgcgc	cgagcagccc	gaagccgaca	agaagcaagc	tgaggaccgc	tgaacgcagc	120
tggaggagga	gcagcagggc	ctccagaaga	agctgaaggg	gacagaggat	gaggtggaaa	180
agtattctga	atccgtgaag	gagggccagg	agaaactgga	gcaggcccgag	aagaaggcca	240
ctgatgctga	ggcagatgtg	gcctccctga	accgccgcat	tcagctgggt	gaggaggagc	300
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cggtctgatg	gagcgagaga	ggaatgaagg	tcacgcagaa	ccgggccatg	aaggatgagg	420
agaagatgga	actgcaggag	atgcagctga	aggaggccaa	gcacatcgct	gaggattcag	480
accgcaataa	tgaagagggtg	gccagggaagc	tggtgatctc	ggaaggagag	ctggagcgct	540
cggaggagag	ggctgaggtg	gccgagagcc	gagccagaca	gctggaggag	gaacttcgaa	600
ccatggacca	ggccctcaag	tccttgatgg	cctcagaggga	ggagtattcc	accaagaag	660
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ccttggccag	tgccaaggag	gagaacgtcg	agattcacca	gaccttggac	cagacccctc	840
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<210> 207

<211> 910

<212> DNA

<213> Homo Sapiens

<400> 207

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gagataaaac	caactttccc	aaaaaggag	atgtttgtca	ctgctgggtat	acagggaacac	420
tacaagatgg	gactgttttt	gatactaata	ttcaaacaa	tgcaagaag	aagaaaaatg	480

ccaagccttt	aagtttttaag	gtcggagtag	gcaaagttat	cagaggatgg	gatgaagctc	540
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gaaagaaagg	acagcctgat	gccaaaatc	caccaaatgc	aaaactcact	tttgaagtgg	660
nantatggga	tattgattga	aatagcagtg	cntcagctcn	aggntattag	caacaatgat	720
taaaacntgg	ncttgaaaga	aaatttcaca	actagttnag	aaacttgta	ccaaatggta	780
aaggaaaaag	tcaactggga	aaaattcaag	gngtgaana	aaaanttgg	ttacctgggg	840
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<210> 208

<211> 745

<212> DNA

<213> Homo Sapiens

<400> 208

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gggattttac	tctcaaaagc	tgggaccaag	taaacaaaat	ttattaactc	cttgaatttt	180
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gttggtttta	cccccttttt	cagaacagat	ttaagtanat	tttgggggac	cctcanccaa	660
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<210> 209

<211> 965

<212> DNA

<213> Homo Sapiens

<400> 209

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cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
tggttacagc	ctataacat	ctttttgaaa	ctaagcgttt	taagggtact	gaaagtataa	240
gtaaagtgtc	tgagcaagta	aaaaatgtga	agcttaatga	agataaaacc	aaagaaacca	300
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ggncccgccc	ttttgagaga	taaatccctt	angaaancc	ggtccnaaaa	tactttccta	900
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<210> 210

<211> 867

<212> DNA

<213> Homo Sapiens

<400> 210

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taagggaatt	atctctcaaa	agctggggacc	aagtaaacaa	attttattaa	ctccttgaat	180
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gctgtccttt	ctttccgtaa	gccattctgt	gttcaatctc	cagtcgagcc	ttttctcctt	420
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aacttaaaag	cttggcattt	ttcttcttct	ttgcacttgt	ttgaatatta	gtatcaaaaa	540
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caatccaagg	gtctcttcaa	nacttgggtt	cctttggggt	ttaancctca	attaagcctc	720
acaatttttt	acttgggtca	agaaancntt	tacttaaac	tttcaggtac	cctttaaana	780
nccttangtt	ttaaaaaaaa	tgggttataa	gggtcggtaa	ccnaaggttg	ggcccttggg	840
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<210> 211

<211> 972

<212> DNA

<213> Homo Sapiens

<400> 211

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cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccact	180
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ggtaaggagg	aacttttttc	ttttacctca	tggtgtaaac	ttaagtggct	caataaaaaa	960
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<210> 212

<211> 817

<212> DNA

<213> Homo Sapiens

<400> 212

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<210> 213

<211> 756

<212> DNA

<213> Homo Sapiens

<400> 213

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ggcactttat	gatacttttt	ctgcttttgg	aaacatactg	tcttgcaagg	tgggtgtgtga	180
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gggtgaatccc	cacattaaga	acttggatga	cactattgat	gatgaagaaa	attaaggaaa	720
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<210> 214

<211> 728

<212> DNA

<213> Homo Sapiens

<400> 214

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cagaacccaa	agaacatatt	cgtataattg	aaaaattcta	ggtgcttcat	aattgacctt	180
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acaagctagg	aagtcttcaa	accttgagtt	gaattccata	aggggttatt	tggcttttga	300
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gccctgcaca	tggaccgcaa	ggctgggggtg	cctgcaaaan	gctgtatggc	aaggatgaag	660
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<210> 215

<211> 710

<212> DNA

<213> Homo Sapiens

<400> 215

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canaaacccaa	agacacataat	cgataaattg	aaaaattcta	ggtgcttcan	aattgacott	180
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tgatcttccc	agccagattt	gaatgcattg	tttgatgan	tgggaacaag	cggtctcccc	540
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ctgccctgc	acaatggacc	gcaaggctgg	gggggtcctg	canaaggctg	tttgggcaag	660
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<210> 216

<211> 824

<212> DNA

<213> Homo Sapiens

<400> 216

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aatccaaaag	gcttttggct	ttgtgagttt	acgaaaaaca	cnaggatgcc	aataaggctg	720
ttgaaaaaga	atgaatggga	aaagaaataa	antggttaaaa	tcataatttg	tagggccgtn	780
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<210> 217

<211> 749

<212> DNA

<213> Homo Sapiens

<400> 217

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<210> 218
<211> 600
<212> DNA
<213> Homo Sapiens

<400> 218
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anattgaaat gcattgtttg ggatgangtg gggaanaagc gttctcncag canncngctt 540
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<210> 219
<211> 1077
<212> DNA
<213> Homo Sapiens

<400> 219
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ccgctccctg ggctatggct acgtcaactt ccagcagcgg gccgagcgtg agcggggttt 180
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tcgatatcan ggggtgaatc cccacattaa gaacttggat gacactattg atgatgagaa 900
attaaggaag gaattttctc cttttggatc aattaccagt gctaaggtaa tgcctggagga 960
tggaagaagc aaagggtttg gcttctgtct cttctcatct cctgaagaan caaccaagc 1020
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<210> 220
<211> 1007
<212> DNA
<213> Homo Sapiens

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tctgtcacc ttccctacag cctgaggagt acatggccta cgttcagagg caagccgact 180
caaagcagta tggagataaa atcatagagg agctgcaaga tctaggcccc caagtgtgga 240
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acagtaagga ctcagatttc tggaaagatc ttaatgagcc agaggaccag gccccaggag 360
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aagagcagcc	tgtggatgat	gctgcagaag	tccctcagag	ggaaccagag	aaggaaaggg	600
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aagactggag	ggaaaaacaa	gagttccaaa	ncctgggtgaa	nnaagcncat	aaaaaagaag	960
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<210> 221

<211> 833

<212> DNA

<213> Homo Sapiens

<400> 221

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aggatgacag	taaggactca	gattttctgga	agatgcttaa	tgagccagag	gaccaggccc	180
caggagggga	ggaggtgccg	gctgaggagc	aggacccaag	ccctgaggga	gcagattcag	240
cttctggtgc	ttccaatgat	tttcagaaca	acgtgcaggt	caaaatcatt	cgaagccctg	300
cggatttgat	tcgattcata	gaggagctga	aagggtggaac	aaaaaaagggg	aagccaaata	360
tagggccaaga	gcagcctgtg	gatgatgctg	cagaagtccc	tcagagggaa	ccagagaagg	420
aaagggtgtga	tcagaacgg	cagagagaga	tggaaagaaga	ggaggatgag	gatgaggatg	480
aggatgaaga	tgaggatgaa	cggcagttac	tgggagaatt	tgagaangaa	ctggaaggga	540
tcctgcttcc	gtcagaccga	gaccggctcc	gttcggaggt	gaangctggc	atggagccgg	600
gaactcgnaa	acatcatcca	ggagacanga	gaaaganctg	ggaccanag	ggggctgaag	660
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attaaaaaga	ctggagggaa	aaacaagagt	tccaaancct	ggtgaannaa	gcncataaaa	780
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<210> 222

<211> 745

<212> DNA

<213> Homo Sapiens

<400> 222

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caacagagggt	gaaggctcct	caactcagaa	gcacaaattg	taggggacag	gggtgggcagg	180
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cactaaggggc	aggtgggggc	ctgcttgctc	agtgcctgct	aagtgtcctg	ccctccttgc	300
tcctctctacc	cacctccact	caaaagatcc	tactgaatct	ccaggtaggc	agcagggaat	360
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gcagcaagca	ttcaccagg	gccccacac	ccacagaggt	gcccagang	tcacaaagct	540
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ngcagttcca	ggaagatctg	gattccgtga	angggccaag	tgtagtgttg	gtctcagaag	660
tcaaatntc	caagtcctct	gttgcctctc	ccacctggag	aagccccana	cccggnggtg	720
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<210> 223

<211> 747

<212> DNA

<213> Homo Sapiens

<400> 223

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gtgtcccaa	tgtatttcag	aacaacgtgc	agggtcaagt	cattcgaagc	cttgcggatt	480
tgattcgatt	catagaggag	ctgaaagggtg	gaacaaaaaa	ggggaagcca	aatataggcc	540
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gtgatccaga	acggcagaga	gagatgggaa	ngaagangan	gatgaggatg	aggatgaggg	660
atgaaagann	aaggatgaaa	cgggcaagtt	actggggaan	aattttgana	aagggaaactg	720
ggaaggggat	tcttggtctt	ccgttca				747

<210> 224

<211> 618

<212> DNA

<213> Homo Sapiens

<400> 224

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gaggtgaagg	ctcctcaact	cagaagcaca	aattgtaggg	gacagggtgg	gcagggaaag	180
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caancagcat	tcacccangg	gccccacacc	cacnnnagtt	gccccagagg	tcacancctc	540
anctcccan	ctgcctgttt	ggcctcag	gggttccaan	gttcngnaaa	gtgggggagg	600
aagcancccc	antccag					618

<210> 225

<211> 765

<212> DNA

<213> Homo Sapiens

<400> 225

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cagaaaattc	accanggaag	agaaagcctt	attggngnta	atcagtgtgg	tangggcttcc	720
caagggcagc	tcangacctc	atcgggccat	caggtaactc	ataac		765

<210> 226
 <211> 791
 <212> DNA
 <213> Homo Sapiens

<400> 226
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 tgcaacgtcc ctgaacacca taacttagag aatgaagttt ctgatttaga agacataatg 180
 cagcatttaa aatcaaaagaa gcgggaagaa aggtggatga gagcatccaa gcggcagtcg 240
 gagaagaagaa tggagaagact gcatcataat attgatgatc ttttgcaaga gaagaaaagc 300
 ttagagtgtg aagtagaaga attacataga actgtccaga aacgtcaaca gcaaaaggac 360
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 caaanctgat cagcagctaa gatcgctcca agctgatgca aaaggatttg gancancaca 720
 angatcaagc aagaagaagaa cttgaaaaga aattacnaa aatttntnca gcaaaagact 780
 cagacttcaa a 791

<210> 227
 <211> 687
 <212> DNA
 <213> Homo Sapiens

<400> 227
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 gtgagttcaa atattgcagt aaaatcactg ttttttttta aacatgttac gaagattaaa 180
 aaaaaaaagg ctcagccaca tgttggttta aattcccata tgcaactatt cccatattga 240
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<210> 228
 <211> 810
 <212> DNA
 <213> Homo Sapiens

<400> 228
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aaattgcagc	cttnaanctc	ctgaagccctn	cttctaaccg	gcactccaac	canggaatna	720
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<210> 229

<211> 552

<212> DNA

<213> Homo Sapiens

<400> 229

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ctgtgcggaa	gctctttagt	ttaattagat	cccatttgc	aatctcggt	tttgttgcca	180
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<210> 230

<211> 842

<212> DNA

<213> Homo Sapiens

<400> 230

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aaaaggagtc	ttgtataaca	cagttgaaga	aagagttatc	tgaaaacatc	aatgctgtca	180
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attgtttaaa	gggtgaaatg	gaagacgaca	agagcaagat	gggagaaaaa	ggagtctaata	660
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caagaaaact	atttggaaat	tagagtcctt	aaatngaaag	ttccttaaaa	aattacaatc	780
aacaaaaaag	atattggacc	acaaagnaat	tgggtcaaaa	aaccttcaac	aantttcaag	840
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<210> 231

<211> 781

<212> DNA

<213> Homo Sapiens

<400> 231

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tttgcataca	atacagttat	gtattggcta	ttcacaaatt	acagtagtgt	ttttccctct	120
gaaaaatata	agtacaaaag	ctaagtaaac	aatgaggtac	tgccatttgg	gattttttac	180
atgtctttagc	ttaaagaact	ggtcttttagc	aaatattcaa	cagatcaacc	tgaataaaat	240

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agtcatttaa atgtctctaat ttatcagaaa aaatccacta agtttcacct caaaatgtat 300
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aaaagaatgg atgaaaggaa tattatgttaa gcccataaag cagggttaagt tatcaaaaata 420
tcttttaaac aacataaaac tcttcccaag agaaaaactga agaaaaaact atcaccattt 480
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agtgtggaca agttttccaa gcagcangtc acccaatgtc actcttcctc aagatgaagg 660
atcggagcca tgacacatgt ttaactaagc acagacogga tgggtttacc cagaagatac 720
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<210> 232

<211> 767

<212> DNA

<213> Homo Sapiens

<400> 232

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tctgaaaaat ataagtacaa aagctaagta aacaatgagg tactgccatt tgggtttttt 180
tacatgtctt agcttaaaaga actggtcttt agcaaatatt caacagatca acctgaataa 240
aatagtcact taaatgtctt aattttatcag aaaaaatcca ctaagtttca cctcaaaatg 300
tattgcacaa gtcttttttaa aaaatcaccc taaaaataaa taggaaaggt aagcgttctt 360
ttaaaaaaaa tggatgaaag gaattattatg taagcccata aagcagggtta agttatcaaa 420
atatctttta aacaacataa aactcttccc aagagaaaaa tgaagaaaaa actatcacca 480
tttctccact gataaaatct attttanagg cagtctgcaa cttatctgtg ggccagattt 540
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caagtgtggg acagttttcc aagcagcagt caccatgtgt cactcttctt caagatgaaa 660
gatcggagnc atgacacatg ttaacctaaag nacangactg gaggggttac ncangaagat 720
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<210> 233

<211> 879

<212> DNA

<213> Homo Sapiens

<400> 233

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ctatcaataa ggcccaggag gtggaggctg aactttttaga aagccatcaa gaagagacaa 120
atcagttact taataaaatt gctgagaaa atgatgatct aaaacgaaca gccaaaagat 180
atgaagaaat ccttgatgct cgtgaagaag aaatgactgc aaaagtaagg gacctgcaga 240
ctcaacttga ggagctgcag aagaaatacc agcaaaagct agagcaggag gagaaccttg 300
gcaatgataa tgtaacaatt atggagctac agacacagct agcagagaag acgactttaa 360
tcagtgtatc gaaattgaaa gagcaagagt tcagagaaca gattcaaat ttagaagacc 420
gtttgaagaa atatgaaaag aatgtatatg caacaactgt ggggacacct tacaagggtg 480
gcaatttgta ccatacggat gtctcactct ttggagaacc taccgaattt gagtatttgc 540
gaaaagtgct ttttgatgat atgatgggtc gtgagactaa gaccatggca aaagtataaa 600
ccaccgtact gaagtccctt gatgatcaga ctcaaaaat tttgggaaaa gagaagatct 660
cggctgatgt ttacttcacc tcgcagtggc atccttgaag taaaccatca gtctgccta 720
agtttacatg tgtcatgggt ccgattcttc atcctttgaa gaaagagtgg acattggggt 780
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<210> 234

<211> 780

<212> DNA

<213> Homo Sapiens

<400> 234

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gtacaaaagc	taagtaaaca	atgagggtact	gccatttggg	attttttaca	tgtcttagct	180
taaagaaactg	gtcttttagca	aatattcaac	agatcaacct	gaataaaaata	gtcaattaaa	240
tgctctaatt	tatcagaaaa	aatccactaa	gtttcacctc	aaaatgtatt	gcacaagtct	300
ttttaaaaaa	tcaccctaaa	aataaatagg	aaaggtaagc	cgttctttta	aaagaatgga	360
tgaaagggaat	attatgtaag	cccataaaagc	agggttaagt	atcaaaaatat	cttttaaaca	420
acataaaact	cttccaaga	gaaaactgaa	gaaaaaacta	tcaccatttc	tcactgata	480
aaatctattt	taaaggcagt	ctgcaactta	tctgtgggcc	agatttttct	tggtcttttg	540
gctacatgag	gggcccctgaa	tgaaaacttc	attctcaag	agtagcaagt	gtggacaagt	600
tttccaagca	gcagctcanc	aatgtcactc	ttcttcaaga	tgaaagatcg	gagccatgac	660
acatgttaac	taagcacaga	cntgatgggt	tactncagaa	gattaccact	gcnaagggtga	720
aagttaaaca	tcaagncgag	catnctctc	tttccaaaaa	tttccggng	tccggattca	780

<210> 235

<211> 780

<212> DNA

<213> Homo Sapiens

<400> 235

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ctttagagga	gaaagatcag	tatatcagtg	ttctccaaac	tcagggttct	ctactgaaac	180
aacgattacg	aaatggcccg	atgaatgttg	atgtactgaa	accacttctc	cagctggaac	240
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aagatggaa	ttctgtaaaa	acactgga	caactccagca	aagagtgaag	cgctcaagaga	360
acctacttaa	gcgttgttaag	gaacaacatc	agtcacataa	ggaacaatgt	acactattaa	420
ctagtgaaaa	agaagctctg	caagaacaac	tggaatgaag	acttcaagaa	ctagaaaaa	480
taaaggacct	tcatatggcc	gagaagacta	aacttatcac	tcagttgcgt	gatgcataa	540
acttaattga	acagcttgaa	caaggataag	ggaatggtaa	tcgcagagac	aaaacgtcag	600
atgcatgaaa	ccctggaaa	gaaagaagaa	gaaattgctc	aactccgtag	tcgcatcaaa	660
cagatgacta	cccaaggagg	aggaattacg	ggaacaagan	agaaaagtcc	gaaagaactg	720
cntttgaggg	aacttgaaaa	agccttgagt	acagnccaaa	aanacagng	aagccaccgg	780

<210> 236

<211> 711

<212> DNA

<213> Homo Sapiens

<400> 236

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tcataatttt	cttttccacc	aagatttgct	ttgtctgttc	ctgttctttg	ttaccatctt	180
caagtttgga	ctcatagact	tgggttaaa	attttacttt	ttgtctcatt	tcactatttt	240
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tttccaaatc	caacaacttc	tgctgcaatt	gggccaactg	ttctctatat	gcttttgtct	420
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tcaaatgctt	gtcccttttc	ttcaagagaa	gctcaagttg	nttaanttga	ttctttaaag	600
ccttctcaan	tctctcggga	tanaaaacnt	cggtgtcttt	naatgagaac	ggtcaacntg	660

ccggctgggt gataantttt ccgttcancec anccttgggg ctccaaattc c

711

<210> 237

<211> 658

<212> DNA

<213> Homo Sapiens

<400> 237

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aaaataaag	tacaaaagct	aagtaacaa	tgaggtactg	ccatttggga	ttttttacat	180
gtcttagctt	aaagaactgg	tctttagcaa	atattcaaca	gatcaacctg	aataaaatag	240
tcaattaaat	gtcttaattt	atcagaaaaa	atccactaag	tttcacctca	aaatgtattg	300
caagaagctt	tttaaaaaat	caccctaaan	ataaatagga	aaggtaagcc	gttctttaaa	360
aagaatggat	gaaaggaata	ttatgttaagc	ccataagagc	agggttaagtt	atcaaaaatat	420
cttttaaca	ncataaaaact	cttcccanga	gaaaaactgaa	gaaaaaacta	tcaccatttc	480
tccactgata	aaatctattt	taaaggcagt	ctgcancctta	tctgtggggc	aagatttttc	540
ttggnctttt	ggctacatga	gggggcccctg	gaatgaaaaa	cttcattccc	aanggagttt	600
gcnaggtgtg	ggacagggtt	tccaaggcaa	gcaagtnagc	caaatngtca	gtctcttc	658

<210> 238

<211> 678

<212> DNA

<213> Homo Sapiens

<400> 238

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tctgaaaaat	ataagtacaa	aagctaagta	aacaatgagg	tactgccatt	tggtattttt	180
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aatagtcagt	taaagtctct	aatttatcag	aaaaaatcca	ctaaagtcca	cctcaaaaatg	300
tattgcacaa	gtctttttta	aaaatcaccc	taaaaaataa	taggaaaagg	aanccgttct	360
ttaaaaagaa	tggatgaaag	gaatatattg	taagcccata	aagcagggtta	agttatcaaa	420
atatctttta	aacaacataa	gaactcttcc	caaggagaaa	actgaannaa	aaaactatca	480
ncatttcnnc	actgataaaa	tctantttta	aggggnagtcn	gcaacttanc	tgtggggccag	540
atttttccgt	ggggcttttg	ggctacantn	agggggcccct	gaatgaaaaa	nttcaattcc	600
ncaaatgnng	tagcaaatgg	tgggncangt	ttttccaaag	cagncaantt	cancnana	660
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<210> 239

<211> 1402

<212> DNA

<213> Homo Sapiens

<400> 239

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atcagttact	taaaaaaatt	gctgagaag	atgatgatct	aaaacgaaca	gccaaaagat	180
atgaagaaat	ccttgatgct	cgtgaagaag	aatgactgc	aaaagtgaag	gactgtcaga	240
ctcaacttga	ggagctgcag	aagaaatacc	agcaaaaagct	agagcaggag	gagaaccctg	300
gcaatgataa	tgtacaatt	atggagctac	agacacagct	agcacagaag	acgactttta	360
tcagtgtatc	gaaattgaaa	gagcaagagt	tcagagaaca	gattcacaat	ttagaagacc	420
gtttgaagaa	atatgaaaag	aatgtatatg	caacaactgt	ggggacacct	tacaaagggtg	480
gcaatttgta	ccatacggat	gtctcactct	ttggagaacc	taccgaattt	gagtatttgc	540
gaaaagtgtc	ttttgagtat	atgatgggtc	gtgagactaa	gaccatggca	aaagttataa	600

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taactgtatt gtatgcaaat ctgtgattgt tggcagtgct atctctgaga aacagataaa 1380
taaaagttat ttactatafa ac 1402

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<210> 240

<211> 760

<212> DNA

<213> Homo Sapiens

<400> 240

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aaaaataatgg cttttggtct tttggctttt ttattatctt aatagtgtga tccacaatta 120
tggtatcaac tcaatatgaa aaactcaact taatttttggt catgatttttc ataccttctc 180
tcactttgct ggggtatgtc atgtttattga tccagctcga ctttatgaga aacttggaca 240
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atccggaaga gcccgaaaga gaagatgaag atgttcaagg tgaagagatc caagcagcaa 480
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gaaatgtttc cntttgtgtt aaaaaagggt aaagttttgg ggattacccta ggacacaatg 660
ggagctggta aaagtacttc cattaaaaatg ataactntggg tgcacaaaagc caaactgcan 720
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<210> 241

<211> 745

<212> DNA

<213> Homo Sapiens

<400> 241

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cncnggtatt acatcaatac agctataaca ttaatgcagc aattatataa cacaaaagtg 120
ctataatgac atgggaaatg ttcatgaact gtgagtgtaa aagatacaga aaatgacctat 180
gcctacngat actacctttg aaaaaggatc cataaaaaat acattgaata taagtggct 240
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tcaatatgta ctaaaattca catgcattta ttttataatc agaatgtcat tataattaaa 360
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ttgaatccg agtaataaan gtttaaaaaa anctgataca ttggaagtgc aggcataaaaa 480
cctcataatt ttatttgtaa aatgttctca ntgttagctt tattgataat aaccgataac 540
caacctataa ttgtangatt tttaaattat ttttaagcac aaantagacc catgttgggg 600
atgaataaca tgtcngattt tgtnaatttt ggtcnacnac ttttccaaa aatttctctg 660
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<210> 242
<211> 818
<212> DNA
<213> Homo Sapiens

<400> 242
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agaacctgct gaaattaaaga tcatcagaga agcatataag aaggcctttt tattgtgttaa 120
caaaggctctg aatacagatg aattaggtca gaagggaagaa gcaaaagaact actataagca 180
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gcctcagttc tttagttcag ctctcagca tgctgaagta aatggaaaca cctcaactcc 480
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agaagctcct cctgcttata ctctcctaac tgctgaaggt cactacactg tatcctatgg 600
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caacggcctc ttnagaaact taagggtctg gattcangat gaaattgatt ttgatacca 720
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cgggggtacc ttcnaattgt gaagggtttt gggntaaa 818

<210> 243
<211> 799
<212> DNA
<213> Homo Sapiens

<400> 243
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acgtaataat ctatttttat tcattttaaa tcaaaagaaac cattccattt cctaacaac 180
aggtaaagta caaaagtagt ccattttact tttcatcagt ctttccctgt tttgaacaag 240
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ctataaaaaa aattaagggt actaaatgcc aatttttaag caaatatata gtttccattt 420
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caacacatgt actatcagct ttattttacc tgcaaaaata ttttagctac acttggaata 540
aaaaataaact tgagaatata acttcacatt tctaaggcca gatgcaagaa tacttaattc 600
tttcttttta aatagaagac atgccataaa atttatgaaa agttaatttg taggaatggg 660
atacatttaa aaaatacngg ttaaacnngg tgagggaatt ccacatttgg cctatttaac 720
aaaaatttta aaccaatttt caaaaggggc tttggggtaa aaagtnagat cccaagcaac 780
ntcaancant ttaaccttc 799

<210> 244
<211> 726
<212> DNA
<213> Homo Sapiens

<400> 244
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aatatgaaaa tgaagatctg atcaagcatg gctggcctga agatattctg tttcatgtgg 180
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tcccaaggga agtgcgtgat gactgtgccc acctgtgtaa ggccaatagc attcaagggt 300
gcaagatgaa caacgttaat gtggtatata cgcctgtgtc taacctgaag aaaacagctg 360
acatggatgt ggggcagata ggttttcaca ggcagaagga tgtaaaaaat gtgacagtgg 420

agaagaagt	aaatgagatc	ctgaaccgat	tagaaaagac	caaagtcgag	cggttcccag	480
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ttcaggaaat	gaaaaagaga	gaaanagaag	aaatgaagaa	gaanagggaa	atggatgaac	600
ttangagcta	ttcatcacta	atgaaagt	gaaaatatgt	cttcanatca	ggatggcaat	660
ggattcagat	gaattcatgt	taaaaggaga	aaaggngaaa	aaggaccttt	gaaaaaattg	720
aatgtt						726

<210> 245

<211> 592

<212> DNA

<213> Homo Sapiens

<400> 245

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atttggccag	tgagttttgc	ctcagggaat	tttccagttc	aaccccatat	accaacatgg	180
aataaatgga	aacactagcc	ttttggtttt	gcccanaagt	ccaaagtgtc	attacaggtg	240
gaatatctgc	tgacggaagt	cattcttggc	gctgtgggtg	tgagtataat	gcttagttcc	300
ttctaaaatc	ataattgcaa	tatggacttc	tgcttcacgc	tgatctctaa	ggcacaaatc	360
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caggcaacaa	gtgccacagg	ccccagcttg	atgaanacca	tcnatttctt	taaaaatgtg	540
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<210> 246

<211> 821

<212> DNA

<213> Homo Sapiens

<400> 246

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tagaaatgaa	ggaacagatg	tatcaggaca	aactggcttc	tctcaaggag	cagttgcaac	180
aaactgcaaga	aggtacatta	caggaaatct	agaagagaat	gaaaaaacta	gatcagcagt	240
acaaagagag	gatacggaa	gcagaactct	tcctccagct	ggaaactgaa	caagtggaa	300
gaaattacat	taaagaaaag	aaggcagcag	tgaaagaatt	tgaaagacaag	aaggttgagc	360
tgaaagagaa	cctgattgct	gagctagaag	aaaagaagaa	aatgattgaa	aatgaaaagc	420
tgacaatgga	actgactgga	gattctatgg	agggtgaaac	tatcatgacc	agaaagtgtc	480
ggaggcgacc	aaatgatccc	gtccccatcc	cagacaagag	gaggaaaacct	gctccagccc	540
agctaaacta	tttgtaaca	ggatgaacag	atcatggagg	atctgagaac	attaaataag	600
cttaagtca	ccaagagacc	agcatctcca	tcctctctcg	agcacttgcc	tgcaacaccc	660
gccggaatct	ccaagcccca	gaggttcnaa	agccccggat	anaagaatgg	caaacctgtt	720
actatgacaa	aaagatggtt	accacaagag	ccaaggccat	cctatcctgg	angtcaaagg	780
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<210> 247

<211> 639

<212> DNA

<213> Homo Sapiens

<400> 247

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gctaggacct	ctgccccaa	cttctgggca	aatagtgaat	tgagcgcgac	agggaaagta	120
gctacgtgat	ccactaatca	gattcaaaac	atgaaaatgc	actggagagt	gtatcccttc	180
ctgctctct	ccatggtaga	gagacttaaa	gataatcaat	aaaaatagct	gtcccttcaa	240

actcagagga	ggttttcaaa	aacaagtata	agcaaaaaat	aaagaaataa	aaggaaagta	300
aatcaaaacc	cccaatacgc	ctgaaagtaa	aacagctctca	tggtgactga	tgtctggaan	360
aagttgaggg	agaaaagact	gacaaagtgtg	gaangcatcc	cggccacaaa	agtgcccnna	420
aagaattcan	tgcaagtgtc	tcattttcca	aggctgagta	actattccca	gntaagttaa	480
catttttcna	nttaaggana	nancgaanac	anntncatnt	ctanatccca	ctccagaaat	540
anggtcaatg	agaangangc	actgtannna	aagtcaagna	gctggancnc	ccggcgcgnt	600
tnaccaaga	gccccggcgt	nnaagcctgg	gcccaagct			639

<210> 248

<211> 846

<212> DNA

<213> Homo Sapiens

<400> 248

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agtgaaggct	agccaacttt	cagttcagca	gaacaaattg	tctgtccagt	ccaatccctt	180
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tcaccaggtt	gtaattaatg	ctgcagatga	tgatgaagat	gatgatgate	agttttctga	300
ggaaggtgat	gaaacccaaa	caacctacct	gcaaccaact	cctgaagttc	acaatggatt	360
acgagtgaat	tctgtccgga	aaactgcagt	caatataaag	caagggtgaat	gtttgatttt	420
tggaataaaa	actcttgagg	aaattaaagt	aaagaaaatg	aaggaaaaat	ctaagaagca	480
aggtgagggg	tcttcaggag	tttccagttc	tttactccac	cctgagcccc	ttccagggtcc	540
tgaaaaagaa	aatgtcagga	ctgtgtgtgag	gacagtaact	ctctccacca	aacaaggaga	600
agaacccttg	gttagattga	gtcttactga	gagactgggg	aaacgaaaat	tttcagcagg	660
cgggtgacagt	gatctcccat	taaaagcgtag	cctggcacan	aggctaaagg	aagaaagtgt	720
aagctccaga	aactaacant	gacaaaacac	caangaaagc	tcaagtttcc	aagtcacctt	780
aaaggggcga	attaggcatg	tcagcncngga	ttcaagataa	tnagggatgc	aacaagatta	840
aaggtt						846

<210> 249

<211> 763

<212> DNA

<213> Homo Sapiens

<400> 249

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aatggttcaa	ataatgcgga	acacgaaaca	ttgactaata	caagtgtctt	aaatatgaaa	120
caaaattatt	ttttaaaaaa	gcaaaaagat	aaagaatata	tacaaaaggg	acctggaatc	180
tgtaagctga	ttccaaaaat	gaaataagta	gaaaatccat	ggtgaaaacct	gaacattcta	240
cctctgtctt	ggagaagggc	tatcatacaa	cattcagtc	gctgaagatg	gatttggtaga	300
gggtgtgtcta	tacataaaact	tcagtcattt	ttgcttgtgc	agaatcatcc	caatcttccc	360
aagactgaat	gggcagtcct	gtggctttct	tccttttcca	tattcccaac	aaggctacgt	420
gaagttcaac	tcttgatgag	ccgcttacaa	cagcagttcc	ttaggagcca	acatgacagg	480
tggttcagat	ttccctatga	gaaacaaaa	tgccaccta	cagcaaaaata	tcaaatggg	540
taagtccctc	cttccctctc	ctcctgatta	tatacaacat	atctcctttc	aagactatta	600
tttccatcat	gctttattcc	ttcacaaatc	taaaccttga	ngtगतatga	angaaaccaa	660
catcaagaaa	agaaaactca	attcagaat	gaanaaaacg	ggcaggtata	caatacaccc	720
cagagcatct	caatatcccc	tgggacagnt	acaattcagt	ggt		763

<210> 250

<211> 899

<212> DNA

<213> Homo Sapiens

<400> 250

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gaaaaatcag	tcttgacacc	tcttcgggga	gatgtagcct	cttgcaatac	ccaagtggca	120
gagaaaccag	tgtctactgc	tgtgccagga	atcacacggc	acctgaccaa	gcggctctcc	180
acaaagtcat	ccagaagggt	ggaggtagaa	acctcaggga	tggagactc	attattgaat	240
gtgaaatgtg	cagcacagac	cttggaaaaa	aggggttaag	ctaaacccaa	agtgaaactg	300
aagccatctg	tgggtaaagt	tgtgtcatcc	cccaaattgg	cccaaaaacg	taaggcagtg	360
gagatgcacg	ctgtgtcat	tgcgctgtg	aagccactca	gtccagcag	tgtcctacag	420
gaacccccag	ccaaaaaggc	agctgtggct	gttgtccgc	ttgtctctga	ggacaaatca	480
gtcaactgtc	ctgaagcaga	aaatcctaga	gacagtcttg	tgtgctctcc	aacccagctc	540
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ctggaagggt	tggtaatgta	gggacnctt	naaaaaaaa	atccnccaaa	aaaactnngg	840
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<210> 251

<211> 755

<212> DNA

<213> Homo Sapiens

<400> 251

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tcaaaatag	cggaacacga	aacattgana	nagacaagtg	ctttaaatat	gaacaaaaat	120
tattttttaa	aaaagcaaaa	gaataaagaa	tatatacaaa	agggacctgg	aatctgtaag	180
gtgattccaa	aaacgaaata	agtagaaaat	ccatgggtgaa	acctgaacat	cttacctctg	240
ctttggagaa	gggctatcat	acaacattca	gtcagctgaa	gatggattgg	tagagggtgtg	300
tctatacata	aacttcagtc	atttttgctt	gtgcagaatc	atcccaatct	tcccaagact	360
gaatgggcag	tctgtggctt	ttcttccttt	tccatattcc	caacaaggct	acgtgaagtt	420
caactcttga	tgagccgctt	acaacagcag	ttccttagga	gccaacatga	caggtgggtc	480
agattttcct	atgagaacaa	aaactggcca	ctacagcaa	aatatcaaaa	tggttaagtc	540
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atcatgctta	ntccttcaca	aatctaaacc	ttgaggtgat	atgaaggaaa	ccaacatcan	660
gaaaagaaaa	ctcaattcag	aaatgaagaa	aacgggcang	tatacaattc	anccccagag	720
caaccacaata	atccctgggc	aaaagttcaa	ttcaa			755

<210> 252

<211> 753

<212> DNA

<213> Homo Sapiens

<400> 252

ctacatcag	ttttatttaa	aacactaaca	agtattttct	ttttctgaag	ggcaaatgg	60
tcaaaatag	cggaacacga	aacattgact	aatacaagtg	ctttaaatat	gaacaaaaat	120
tattttttaa	aaaagcaaaa	gaataaagaa	tatatacaaa	agggacctgg	aatctgtaag	180
gtgattccaa	aaacgaaata	agtagaaaat	ccatgggtgaa	acctgaacat	cttacctctg	240
ctttggagaa	gggctatcat	acaacattca	gtcagctgaa	gatggattgg	tagagggtgtg	300
tctatacata	aacttcagtc	atttttgctt	gtgcagaatc	atcccaatct	tcccaagact	360
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caactcttga	tgagccgctt	acaacagcag	ttccttagga	gccaacatga	caggtgggtc	480
agattttcct	atgagaacaa	aaactggcca	ctacagcaa	aatatcaaaa	tggttaagtc	540
cttctctcct	cttctctcctg	gattatatac	aacatatctc	ctttcaagac	tattatttcc	600
atcatgcnta	atccttcaca	aatctaaaac	cttgaggggt	atatgaagg	aaaccaacat	660
canagaaaag	aaaactcaat	tcaagaaaat	taagaaaacc	tggcaaggta	tacaataata	720

ccccaggag catcccaaat aatccctggg aaa

753

<210> 253

<211> 793

<212> DNA

<213> Homo Sapiens

<400> 253

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aatgggttcaa ataattgcgga acacgaaaca ttgactaata caagtgtctt aatatgaaa	120
caaaattatt ttttaaaaaa gcaaaagaat aaagaatata tacaaaaggg acctgggaatc	180
tgtaaggnga ttccaaaac gaaataagta gaaatccat ggtgaaacct gaanattcta	240
cctctgtctt gganaagggc tatcatataa cattcagtc gctgaanatt gattgggttaa	300
gggtgtgtcta tacataaaat tcagtcattt ttgcttgtgc anaatcatcc caatcttccc	360
aagactgaat gggcagtcct gtggctttct tccttttcca nattcccaac aaggctacgt	420
gaagttcaac tcttgatgag ccgcttataa cagcagttcc ttagggagcca acatgacagg	480
tgggtcagat ttccctatga gaaacaaaac tggccacctc cagcaaaaata tcaaaatggg	540
taagtccttc ctctctcttc cncctgatta tatacaanat atctccttcc aagactatta	600
tttccatcat gcttattcct tcacanatct aaaccttgan gtgatatgaa nggnaacc	660
catcangaa agaaaaactca attcagnaat gaangaaaac tgggaggtat ttaatanacc	720
cccangnga atccaaatcc cctggnaana gtccaattca antgtacngc naaagnccat	780
aantaantat tgg	793

<210> 254

<211> 625

<212> DNA

<213> Homo Sapiens

<400> 254

cctacatcag ttttatttaa aactactaaca agtatttctc tttctgtaag ggcaaatggt	60
tcaataaatg cggaacacga aacattgact aatacaagtg ctttaaatat gaaacaaaaa	120
tattttttaa aaaagcaaaa gaataaagaa tatatacaaa agggacctgg aatctgtaag	180
gtgattccaa aaacgaataa agtagaaaat ccatggtgaa acctgaacat tctacctctg	240
ctttggagaa gggctatcat acaacattca gtcagctgaa gatggattgg tanagggtgtg	300
tctatacata aacttcagtc atttttgctt gtgcagaatc atcccaatct tcccaagact	360
gaatgggcag tctgtgtgct ttcttcttcc tccatattcc caacaaggct acgtgaagtt	420
caactcttga tgagccgctt acaacancaa gttccttang agccaacatg acaggtgggg	480
tcangatttc cctatgagaa acaanactgg ccacctacag caaaaatn aaaaatgggt	540
aagtccctcc ttctcttccc tctgaatta tatncaacat ntctcctttt caagacnatt	600
anttccatca gggcttaatc ctcca	625

<210> 255

<211> 907

<212> DNA

<213> Homo Sapiens

<400> 255

gccaacagca gcgagaaac gtttctcttt cctctcagtt tgcgcacacc atggcgggccc	60
ctgcccagca gactactcag cctggcgggc ggaagcgcaa aggcagggtc cagtatgtgc	120
tggccaagcg cgtcggggcg tgcgacgctg gcggggcccg tcagctagag cccgggctac	180
agggcatcct catcacctgc aatatgaacg agcgcaagtg cgtggaggag gcctacagcc	240
tcctcaacga atacggcgac gacatgtatg ggccagaaaa gtttacagac aaggatcagc	300
agccctctgg aagtggaggga gaggatgatg atgcggaggg tgccttgaag aaagaagtgtg	360
gtgacattaa ggcattcaca gagatgaggt taagaagatt ccagtcagtg gaaagtggag	420
caataaacgt tgtcttcacg aggacacttg ggatagagcc tgagaaattg gtgcatcata	480

ttctccagga	tatgtacaaa	accaagaaaa	agaagactcg	agttattttg	cgaatgttac	540
ccatctcagg	cacatgcaag	gctttttttg	aagatatgaa	aaaatatgca	gaaacatttt	600
tggaaccctg	gtttaaagct	ccaacacaa	ggacatttca	gattgtgtac	aaaatctcga	660
nataacagtc	atgtnaatag	agaagaagtt	atcaagagaa	tttgcaagga	atagttgtgca	720
acctcaattc	agnaaataaa	gtgggnttca	acaatccaca	agtacacaat	ngtaatanaa	780
atcatcaaan	ctgtcngttc	cctganngtt	tggttaaagga	ttacaagggt	gggtttannaa	840
aattcaatcn	ccaagaaggt	tggtnaanaa	ncccttaang	ggntccttca	naggcnttaa	900
ctcaaaag						907

<210> 256

<211> 794

<212> DNA

<213> Homo Sapiens

<400> 256

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gacctctggg	tatcagatat	gatgtcacaa	aanagagata	ttggcctttg	ttctggcagg	120
ctcctagcaa	tagaaaaagt	tttctttgaa	tttcatcatt	tacaaatctt	acaaatgcta	180
cagcatgaca	aatatttagtg	aaacctgttg	actcatcatc	ctggatagag	aagctgctac	240
ttttcagtta	atgacacaaa	accttttttg	catcatatga	catatcatca	gtaaatcaac	300
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tgttacaatt	gctaagtttt	gtaagttgca	tgtcacagac	aatgcacaat	gggacaagan	600
aaccttggac	ctgagttccac	ataaatacc	cttgagaagt	tancctttcc	tttaattaga	660
caagaatttc	ctttggtgtc	cccttggttg	cactaagtat	acttgaaagt	ntnctccagn	720
angactggaa	gttcttcaat	caaccaant	ttttcaagaa	aatgtccngt	agtttcaang	780
gcctaaaaat	gggt					794

<210> 257

<211> 885

<212> DNA

<213> Homo Sapiens

<400> 257

gacgccaaca	gcagcggaga	aacgtttctc	tttctctca	gtttgcgcac	accatggcgg	60
ccccgcecca	gcagactact	cagcctggcg	gcgggaagcg	caaaggcaag	gctcagtatg	120
tgctggccaa	gcgcgctcgg	cgctgcgacg	ctggcgggcc	ccgtcagcta	gagcccgggc	180
tacagggcac	cctcatcacc	tgcaatatga	acgagcgcaa	gtgcgtggag	gaggccctaca	240
gcctctctca	cgaatacggc	gacgacatgt	atgggccaga	aaagtttaca	gacaaggatc	300
agcagccctc	tggaagttag	ggagaggatg	atgatgcgga	ggctgccttg	aagaagaag	360
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tttttgaacc	ctgggtttta	agctccaaac	aaaggacat	ttcagattgt	gtacaaatct	660
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gtagttagaa	atcaatcaaa	acctgtcngt	ttgccgaan	ttgnttgta	aaagaattca	840
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<210> 258

<211> 798

<212> DNA

<213> Homo Sapiens

<400> 258

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cttcactgta	tcttcaagtt	ttgatataca	gnagcactgt	ggagaaagca	gtgtgctata	120
atgtcaacat	caggatttct	tttttttttt	ttaataacgc	aaaatgactt	atggagacaa	180
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aacattatat	attggccttt	gttctggcag	gtccttagca	atagaaaaag	ttttctttga	300
atttcacat	ttacaaatct	tacaaatgct	acagcatgac	aaatattagt	gaaacctgtt	360
gaectcatcat	cctggataga	gaagctgcta	cttttcagtt	aatgacacaa	aacctttttt	420
gcacatcatg	acataatcat	aagtaaatca	acttattgag	aataaagtct	cttcaacttt	480
gtactgcctc	ttgccccagc	attttaatgt	tattaagatt	ctcaccaacc	atgcataatt	540
tcctttcctg	agataagttc	tgctactaaa	taatttgctt	cttaaacctt	ttgactaaag	600
gtgatttctg	aacaaaagcc	ttactgtttt	tgataagtc	caaaaaacca	tttgaaaaat	660
aatgaatatc	ctttcntgtc	aagtggctgt	gaatttaatg	ttacaattgc	caagttttgt	720
aagttgcatn	gtcacangac	aatgcacaat	ggggacaagg	agaaccttgg	gcctgagtc	780
acaataanta	ccccctga					798

<210> 259

<211> 831

<212> DNA

<213> Homo Sapiens

<400> 259

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gcgcacacca	tgccggcccc	tgcccagcag	actactcagc	ctggcggcgg	gaagcgcaaa	120
ggcaaggctc	agtatgtgct	ggccaagcgc	gctcggcgct	gcgacgctgg	cgggccccgt	180
cagctagagc	ccgggctaca	gggcactctc	atcacctgca	atatgaacga	gcgcaagtgc	240
gtggaggagg	ctacagacct	cctcaacgaa	tacggcgacg	acatgtatgg	gccagaaaaa	300
tttacagaca	aggatcagca	gcctcttgga	agtgaaggag	aggatgatga	tgcggaggct	360
gccttgaaaga	aagaagttgg	tgacattaa	gcactctacg	agatgagggt	aagaagattc	420
cagtcagtg	aaagtggagc	aaataacgtt	gtcttcatca	ggacacttgg	gatanagcct	480
gagaaattgg	tgcatcatat	tctccaggat	atgtacaaaa	ccaagaaaaa	gaagactcga	540
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attgtgttca	aatctcgaaa	ataacagtca	tggtgaatag	aagaagaagt	tatcagagaa	720
nttggcaagg	aataatgntg	caacctcaat	tcagaaaaata	aaagtggatt	tcaccaattc	780
cacagtcnca	aantggtagt	agaaatcctc	aaaagctntc	tgtttgcccg	a	831

<210> 260

<211> 772

<212> DNA

<213> Homo Sapiens

<400> 260

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gacctctgg	tatcagatat	gatgtcaca	cattatata	tgccctttgt	tctggcagcg	120
tcctagcaat	agaaaaagtt	ttctttgaat	ttcatctatt	acaaattcta	caaatgctac	180
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tttcagttaa	tgacacaaaa	ctttttttgc	atcatatgac	atatcatcag	taaatcaact	300
tattgagaat	aaagtctctt	caacttttga	ctgcactctg	cccagcatt	ttaatgttat	360
tagattctca	ccaacctatgc	atattttctc	ttcctgagat	aagttctgct	actaaataat	420
ttgcttctta	aaccttttga	ctaaaggtga	ttcttgaaca	aaagccttac	tgtttttgat	480
agtcacaaag	ccattttgaa	ataatgaata	tcctttcttg	tcaagtggcn	gtgatttatt	540
gttacaattg	ctagttttgt	nagttgcatg	tcacagacaa	tgacaaatgg	gacanganag	600

cctgggactg	agtcacata	ataccntga	gaagtannct	ttctttatta	agacagaant	660
tctttgtg	ccttgttgca	caagtntact	gaagtntcnc	aagaaggact	ggangtcntc	720
ataancaacc	ttttagaaat	gtccgtattc	ctaaggccca	aaaangggtc	cc	772

<210> 261
 <211> 753
 <212> DNA
 <213> Homo Sapiens

<400> 261						
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anaaaacatt	tttggaaacc	tgggtttaaa	gctccaaa	aagggaacatt	tcagaattgt	660
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<210> 262
 <211> 659
 <212> DNA
 <213> Homo Sapiens

<400> 262						
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tagattctca	ccangccatg	cataattttc	tttcttgaga	taagttctgc	tactaaagaa	420
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nnagtcana	agccatttga	aaaataatga	atatccttcc	ctgttcaagt	ggcngtgatt	540
tantgttaca	atttgcnagg	ttttgtaagt	tgcatggtca	cagnanaatg	cacantnggg	600
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<210> 263
 <211> 673
 <212> DNA
 <213> Homo Sapiens

<400> 263						
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ccacaaatcc	agtgaacaac	gatggcattt	tgaaaaacag	caaagtgtga	gtcaagtgat	600
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<210> 264

<211> 661

<212> DNA

<213> Homo Sapiens

<400> 264

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gctcctcatt	ttcctgaaga	anaatctcag	cctgaaagaa	tatagagcta	ggtgacatat	180
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aacgcgggag	tgctgaacac	atgccctcgg	aagggaacct	gaagacccaa	gtgacctgca	420
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gagccaggtc	tacggcaggg	aacatgatct	tcttctccag	cttctgtgga	aggaacanga	600
aatttttcat	gatgtctctc	agctcttcta	nggccaaactg	ggcatgganc	ttggccacgt	660
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<210> 265

<211> 659

<212> DNA

<213> Homo Sapiens

<400> 265

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acctccaact	gcattctcta	ctctgaaatg	cctcttgagc	agccaagggt	ggccagttct	120
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aacgcgggag	tgctgaacac	atgccctcgg	aagggaacct	gaagacccaa	gtgacctgca	420
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gganccaggt	ctacggcnagg	accatgatct	tcttctccan	cttctgtgga	aggaacanga	600
antttttcat	gatgtctctc	actcttctag	ggccaactgg	gcattggactt	ggccacgtc	659

<210> 266

<211> 620

<212> DNA

<213> Homo Sapiens

<400> 266

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gctcctcatt	ttcctgaana	anaatctcag	cctgaaagaa	tatagagcta	ggtgacatat	180
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<210> 267

<211> 745

<212> DNA

<213> Homo Sapiens

<400> 267

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tgctcagctta	tgacctccaa	attcccaacac	gggctgctgc	cctgcgtact	ctttcccaact	180
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gcaaagacaa	gcacacacca	gagaccaaga	atgaaagtgc	gggaagtcct	tatgcgaatc	420
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gtgggggtgt	gctgcnnngc	tttcggggga	actcaaccca	agaaaaagct	tantgtaagg	720
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<210> 268

<211> 676

<212> DNA

<213> Homo Sapiens

<400> 268

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gctcctcatt	ttcctgaana	anaatctcag	cctgaaagaa	tatagagcta	ggtgacatat	180
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gtcatgttaa	aataatactt	caccaggtag	acatccttct	ttcaatgcta	gaggacagtg	300
aaaaatgtag	attaatgaga	tctgtaactg	tcttctctta	actgtacacc	cctcaggctg	360
aacgcggggg	tgctgaacac	atgccctcgg	aagggaacct	gaagacccaa	gtgacctgca	420
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gaagtgtttc	atgatgtcat	ccanctcttc	taaggccaac	tgggcatgga	acttggccac	660
gtcatcgggc	tccaaa					676

<210> 269

<211> 737

<212> DNA

<213> Homo Sapiens

<400> 269

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cctgttgggt	tcctttattat	tgaaagagaa	acaggatggc	tgaagctcct	ctctcacgct	120
gtgtcatcca	acgggaatgc	agttgaggat	ccaatggaga	ttttgatcac	ggtaaccgat	180
cagaatgaca	acaagcccga	attcaccacg	gaggtcttta	aggggtctgt	catggaagggt	240

gctcttccag	gaacctctgt	gatggaggtc	acagccacag	acgaggacga	tgatgtgaac	300
acctacaatg	ccgccatcgc	ttacaccatc	ctcagccaag	atcctgagct	ccctgacaaa	360
aatatgttca	ccattaacag	gaacacagga	gtcatcagtg	tggtcaccac	tgggctggag	420
cgagagaggt	tcacctacgt	tacctgggtg	gttcaagctg	ctgaccttca	aggtgagggg	480
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caacactgaa	aagtgactga	tgcttgatgc	cccccaatta	nccanccgt	gggaagctgt	660
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 <212> DNA
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atttttctatg	atgtctccan	ctcttctagg	gcactggggc	atggancttg	ggcnctcat	660
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<210> 271
 <211> 814
 <212> DNA
 <213> Homo Sapiens

<400> 271						
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gtcatgttaa	aataactttt	caccaggtag	acatccttct	ttcaatgcta	gaggacagtg	300
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gaaggcaggg	ggctcaacaa	cccaagtanc	cttctcnggg	ctgaatcccc	ngaagcaagc	780
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<210> 272
 <211> 862
 <212> DNA
 <213> Homo Sapiens

<400> 272
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ccagacagc cctgcagctca aatgctccaa tcattcctca aggagtcatt gagccacga 180
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<210> 273

<211> 677

<212> DNA

<213> Homo Sapiens

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<210> 274

<211> 863

<212> DNA

<213> Homo Sapiens

<400> 274
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<210> 275

<211> 821

<212> DNA

<213> Homo Sapiens

<400> 275

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<210> 276

<211> 722

<212> DNA

<213> Homo Sapiens

<400> 276

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<210> 277

<211> 805

<212> DNA

<213> Homo Sapiens

<400> 277

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gggtggccaa cgccttctcc tcaagttcca agagagtggg caattagtga aattccatca 240
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aaaaatgtag	attaatgaga	tctgtaactg	tcttctctta	actgtacacc	cctcaggctg	360
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tgctgggaag	acctggggac	ggctctgggt	gcctggggcc	tgcttgccct	ctccacgtcc	540
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ngaagttttt	caagatgtca	tccaactcct	ccaaggggca	actggggcat	gggagccttg	660
gcactctcatn	cgggctccac	acacactacg	gtgcttcaac	aagggnggta	magattcttg	720
anggacgggg	ctcaacaac	gaacctcant	tacctttcng	gctgagtcce	cnaagcaac	780
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<210> 278

<211> 1358

<212> DNA

<213> Homo Sapiens

<400> 278

agaaactcaga	gctgtctctc	ctctgtggcc	agttggggac	cagcatcatg	aagtggatgg	60
tggtggctct	ggctgcctcc	cagctcttgg	aggcagcagt	ggtcaaatgt	ccctgaaga	120
aatttaagtc	tatccgtgag	accatgaagg	agaagggtct	gctgggggag	ttcctgagga	180
ccacacaagta	tgactcctgt	tggaaagtacc	gctttgggtga	cctcagcgtg	acctacgagc	240
ccatggcccta	catggatgct	gctactcttg	gtgagatcag	catcgggact	ccaccccgaga	300
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agagccaggc	ctgcaccagt	cactcccgct	tcaaccccg	cagtgctgtc	acctactcca	420
ccaatgggca	aacctttctc	ctgcagtatg	gcagtggcag	cctcaccggc	ttctttggct	480
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aatnagcctg	ggtaaccaat	tcgtctaagc	gcagtttgat	ggcatcatgg	gctctggcctt	600
accctgcctc	gtccgtggat	gaggccaacca	cagtatgcag	ggcatgtgca	ggaggggcgcc	660
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cggtgtgtccc	ttgggggtgt	ggatagcagc	ntgtacacgg	ggcagatcta	ctggggcgnt	780
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tttgccactg	ccgcctagac	ttgctgcctc	gacacgtggg	ctccctctct	ctctcttgacc	1260
ctgcaccctc	ctagggcatt	gtatctgtct	ttccactctg	gattcagcct	tctttttctg	1320
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<210> 279

<211> 702

<212> DNA

<213> Homo Sapiens

<400> 279

gaagcaatga	atacgcgaatt	agaactttca	gaacaactta	aattttcagaa	caactctgaa	60
gataatgtta	aaaaactaca	agaagagatt	gagaaaatta	ggccaggctt	tgaggagcaa	120
attttatatac	tgcaaaaagca	attagacgct	accactgatg	aaaaagaagga	aacagttaact	180
caactccaaa	atatcattga	ggctaattct	cagcattacc	aaaaaaaaat	taatagtttg	240
cagggaagagc	ttttacagtt	gaaagctata	caccaagaag	aggtgaaaga	gttgatgtgc	300
cagattgaag	catcagctaa	ggaacatgaa	gcagagataa	ataagttgaa	cgagctaaaa	360
gagaacttag	taaaacaaatg	tgaggcgaat	gaaaagaaca	tccagaagaa	ataatgaatgt	420
gagttagaaa	atttaaggaa	agccacctca	aatgcaaac	aagacaatca	gatattgtct	480
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agaagatacc	ttaaaaagaa	cttgaatctc	aacacagtat	cttaaaaaga	tgagggttaac	600
ttatatgaat	aatccttaag	tttaaaactt	gaaaatggga	tgctcaacc	attttaaagg	660
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<210> 280

<211> 874

<212> DNA

<213> Homo Sapiens

<400> 280

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aacagtgaga	tctctgagca	catggctctg	acctcaacca	cttttctatc	accaggggtct	120
agaatagtgt	ggcattttaa	taaaatttgc	ttaatgaatg	aaaaatccaa	aataaatcat	180
gaagccattt	ataaatcaca	ccaatcttgc	ttgggttaaa	caatagaaag	taacactttt	240
gaaagagaag	gcaaacaggt	gttagagggg	caagaatgtg	agctcgagga	aaagacagct	300
acgaactgtg	tttttaacaa	ctcattattt	ggctactata	tttccaatc	tattctaaca	360
ctaagaagaa	tctgtctaat	taattgtgac	aacatctgca	aaacctagtg	tacctatttt	420
ttcttccaac	ttctttactg	aagacagagg	atcatttttt	acagaagggtg	attttgctaa	480
ggaattcctan	attttacagg	ggggaaaaaa	aaacacnaaa	caaaaacaaa	accagaatca	540
gaattcattt	tcataatga	actggccatc	ntgttaagca	taanaaaatc	actatcaaa	600
anaattccta	cagaaaccaa	tttggtcaca	gaatttccct	tggtanacca	gaaaattaat	660
actgaactta	ctatgcata	ggcatttact	attaaaaaaa	aaaaagtant	aaccaaggcc	720
aaganaaaca	acctgaaaca	ttaaatacat	ntttataagg	aaaaantaaa	tgaattttta	780
tccttaatttt	aaanaaaaac	cnaaaatttt	nncatacccc	cccgtcttta	cttaaaaant	840
gncttaccaa	aatactaanc	ctttccccaa	aacc			874

<210> 281

<211> 730

<212> DNA

<213> Homo Sapiens

<400> 281

acaaaacagc	agctggaag	agaaatgtag	gtggcagacy	agccaggcac	gaggtttcag	60
attggaaggg	accaagatga	ggaccaaggt	gtggctgcct	gactaggaac	gctgtgggct	120
ggcccaggct	ctcgcacac	atcctgggan	aactgccata	ggccctagaa	ggagggatga	180
aaggcgatg	ggagggaana	cagcggtccc	cgatcagca	gcagcaccac	catcctctga	240
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tgggccccag	gagccanaca	ggaggggaggc	agcaggaang	gctggcatgg	aagggtctgag	360
ttctattggg	gtccccagcg	ggcaaggga	ccaggactca	tccctgcttg	tcagccaatc	420
agcttcttca	ggaagcctcc	aactgatcct	catccttgat	gcccacaaac	ttgtccacca	480
cgccccattt	cttcatggcc	agcacagtgg	gcaccgctga	cacctcatal	tcaatggcga	540
agtcgtgtgt	gtctcaata	tccaccttgg	ccatcaccac	cttcccgtgc	tgcttggcca	600
ccatcttctc	taacctccgn	cccangatct	tcagggtcca	caccactgtg	cggtggaaatc	660
cacaaccact	ggtgtctctc	gtttgaacac	tccgtcttga	aantcngtcc	ntcctgnata	720
ttaaaggttg						730

<210> 282

<211> 699

<212> DNA

<213> Homo Sapiens

<400> 282

agaactcaga	gctgctcttc	ctctgtggcc	agttggggac	cagcatcatg	aagtggatgg	60
tggtggctct	ggtctgcctc	cagctcttgg	aggcagcagt	ggtaaaagt	cccctgaaga	120
aatttaagtc	tatccgtgag	accatgaagg	agaagggtct	gctgggggag	ttcctgagga	180

cccacaagta	tgatcctgct	tggaagtacc	gctttggtga	cctcagcgtg	acctacgagc	240
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acttctcgtt	cctttttgac	accggtcctc	ccaacttggt	ggtgcctctc	gtctactgcc	360
agagccaggc	ctgcaccagt	ctgcaccgct	tcaacccag	cgagtctgcc	acctactcca	420
ccaatgggca	aacctttctc	ctgcagtatg	gcagtggcag	cctcaccggc	ttctttggct	480
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aatnagcctt	ggtagcaact	tcgtctaagc	gcanttttga	tgggatcaag	ggcctgggac	600
taacctgggt	ctgtcccggt	ggattaaggc	caccacaagc	tatntagggc	nattnggntc	660
aaggatgggt	gtcnccttat	nnagcccccg	tnccttcaa			699

<210> 283

<211> 759

<212> DNA

<213> Homo Sapiens

<400> 283

gaaattgaga	actgatttaa	tactaaagt	ctgaataaag	gtgtgcactt	tatgattgat	60
tctatctttt	tgacacaagt	ggatactcca	gtttcccatc	ccaacatggt	gttcgcaatg	120
tgtagagaac	tgatgaaaga	cgatacccc	gtttacacac	aaattcaact	gattcacctg	180
ttctcgaaat	aagcttctgt	ttggctgtcc	accttaattg	tatgtataaa	ttttccataa	240
ttctcgggga	tattacacac	ggatgtaagc	attttggtgg	ttctgaccat	tgctccatttc	300
tacatgttat	tcgcttggtt	ccctcaagt	gatacaagtt	ctggcatctg	tactcaactg	360
atgaagctgg	agcatatact	gacaacggga	atgaagtaat	gtcccatctg	tcaatagggt	420
gaggggggccc	acattttcct	tgagaatctt	tgcatcgagg	tggttcctgc	cagtctccat	480
ttaaacacat	cacttcttca	tcaccaaa	tttcataagg	gtcctacat	tgataacgta	540
ctctctcacc	agatggatat	ttactcatct	gtctcgacac	tacataagca	ttttgtactg	600
tgggcggtatt	ccacangang	gtctcttgca	tggtgggctt	cctgtccact	gctattaatg	660
catgtttacat	tactggctcc	accattttgt	aatatgttgc	acaagtttta	gtccttgctc	720
acccctctat	acacatcctt	ctctctccat	gggtttggc			759

<210> 284

<211> 764

<212> DNA

<213> Homo Sapiens

<400> 284

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ttatatgtaa	atggatcttc	cagctcttcc	accaaaagcca	cctaagccaa	tgacttcagc	120
agttccaaca	tggaatgaag	gacagttctg	ttctcttcca	ggatgcagaa	tggtactggg	180
gggatatttc	aagggaggag	gtaaatgaca	aattgcggga	tatgcccagat	gggaccttct	240
tggtccgaga	tgcttcaaca	aaaatgcagg	gagattatac	tttgactttg	cggaaggggag	300
gcaataataa	gttaataaag	atctatcacc	gggatggtaa	atatggcttt	tctgatcctc	360
tgacatttaa	ttccgtgggt	gagctcatta	accactatca	ccatgaatct	cttgctcagt	420
acaatcccaa	acttgatgtg	aagctgatgt	acccaagtgt	ccagatacca	acaggatcag	480
ttggtaaaag	aagataatat	tgatgcagta	ngtaaaaaac	tgcaagaata	ccactctcaa	540
gtatcaggag	aagagtaaag	gagtatgata	ngctgtatga	agaatatact	agaacatccc	600
aaggaaatac	agatgaagag	gactgcaata	gaaagctttt	aatgaaaaca	ttaaaaatatt	660
tggaagagca	ntgtcacaca	caaggaaacca	acattnccaa	agaatatatt	gagnngattt	720
cncaaaaana	ggggaaatga	aaagggggan	ttgaacgaaa	ttta		764

<210> 285

<211> 586

<212> DNA

<213> Homo Sapiens

<400> 285

gcattgcacc	ttttttttac	ccatacaaac	aagttacaaa	ggtttcaaac	aacagntcat	60
ttcttaggct	aaggaacac	catacaagca	ccaacttcat	tttangattc	aaagctcacc	120
atccccacaa	aaagaatgct	attccncatc	tcagagaaaac	aggcagggaag	gacanaagggg	180
gttagttaca	gtgatcaatt	ttagcgtttg	ctaaaacnca	caaattcnag	notttttaag	240
ttcaagtttt	ggtacagaag	tatacattca	actatgagtg	ccacgttttc	ccatcaaaaca	300
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gctgggtgaa	tgctgaancc	taaattatgt	tgnaagaaa	caaagtacct	tcanttgaag	420
gtttttttta	acancnnggc	ttaaattatt	taaatgaaan	cccaagcctc	ccnattttnc	480
tttggtngcg	ttttncanaa	aatcccatto	natcacaaaa	ccctaaaaag	cctttctcgt	540
nggggggaaa	aaananactg	ccaaangcaa	aaacaaaaac	ncccaa		586

<210> 286

<211> 666

<212> DNA

<213> Homo Sapiens

<400> 286

gcttgaggtt	cagtgagggtgc	agcctgcttg	cgagctgagg	ccagacaggg	gggcgcctac	60
ggacggaaaa	gaaaagtgtga	ttacaaaacgg	gaccatattt	tgcttcgaaa	tgggaaccagc	120
agttagcgag	ccaatgagag	accaagtgcg	acggactcat	ttgacagagg	acactcccaa	180
agtgaatgct	gacatagaaa	aggttaacca	gaatcaggcc	aagagatgca	cagtgatcgg	240
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caatgtattt	gatatccagc	aagggtttga	taatccccag	gtgcgggtct	ttctgggtga	360
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gcaccaagaa	tgtcattgaa	acttgcaaa	aggctggggt	tcagaaaactc	attttaacca	540
gcagtgccat	gtcatctttg	agggcgctcg	tatcaagaat	ggaactgaaa	gaccttccct	600
nagccattga	aaccaattga	cctactacac	aaganactaa	agatcttaca	ngagaaggga	660
attttt						666

<210> 287

<211> 782

<212> DNA

<213> Homo Sapiens

<400> 287

gacagagaac	aaatcggtat	aatatgaagc	tgcttctctc	aagaaatcca	aatccagttc	60
catgaaggaa	gaaatgtctg	tttttgcgcc	cctcatcgto	acggaaagag	taggggtgcg	120
ttctctgccta	gcagaaggag	tcacaggctc	agagcaaaact	cattcaaagg	atgttatttc	180
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agtggaatgt	gccaagccagt	gcgaccgcga	tggtgtgtga	gggtgggtgc	agctggatga	420
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gtccaaaaag	ggatgggtgc	atcattggtg	atgtgaaatg	ccttcccacc	cagtgtcgag	600
ttctnngggan	anctgctctg	ccgccaaagt	tgtccatggg	accaaggttc	tcacaaaggt	660
gaaagtcac	caagtctctc	ccaatttcca	atcacgaaac	ttcaaccttg	ccgttctctg	720
ctgcctccat	gaaggatggg	ttacaaaactg	ccgggttccc	tttggggccg	aaaaattgccc	780
aa						782

<210> 288

<211> 707

<212> DNA

<213> Homo Sapiens

<400> 288
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 accaagtaga atagtctttt aaggctatta accaggggtg ccttacatca gtacgtgtca 120
 gagggaaaga ctgtgcagta attgtcacac agaagaaagt acctgacaaa ttattggatt 180
 cagacacagt gactcactta ttcaagataa ctgaaaacat tggttgtgtg atgaccggaa 240
 tgacagctga cagcagatcc cagggtacaga gggcacgcta tgaggcagct aactggaaat 300
 acaagtatgg ctatgagatt cctgtggaca tgctgtgtaa aagaattgcc gatatttctc 360
 aggtctacac acagaatgct gaaatgaggc ctcttggttg ttgtatgatt ttaattggta 420
 tagatgaaga gcaaggccct caggtatata agtgtgatcc tgcaggttac tactgtgggt 480
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 tgaagaagaa atttgattgg acatttgaac agacagtgga aactgcaatt acatgacctgt 600
 ctactgttcc atcaattgan ttcaaaccct cagaaataga aattgggagt aatgacagtt 660
 gaaaatccta aattcangan tctacagaa gcagagattg atgctca 707

<210> 289

<211> 673

<212> DNA

<213> Homo Sapiens

<400> 289
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 acttccccnn atttttgact atgatggcta gaaaaatgaa agatcacagat agtgaagaag 180
 aaatccgtga ggcattccga gtctttgaca aggatggcaa tggttatata agtgcagcag 240
 aactacgtca cgtcatgaca aacttaggag aaaaactaac agatgaagaa gtatgatgaa 300
 tgatcagaga agcagatatt gatggagacg gacaagtcaa ctatgaagaa ttcgtacaga 360
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 aaaaaaaacg gagagtactt ctaaagcggc cgccgggcna tcgattttcc acccgggtgg 540
 ggtaccagnt aagtgtccca attcgcccta taggggagtc gtattacaat tcacggggcc 600
 gtcgttttta aaacgtcntg acgggggaaa accctggngt taccaactta atcccccttg 660
 caacaaatnc ccc 673

<210> 290

<211> 573

<212> DNA

<213> Homo Sapiens

<400> 290
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 gtaggctctc attttgcagt catcatctgt acgaattctt canagttgac ttgtccgtct 120
 ccatcaatat ctgcttcnct gatcatttca tctacttctt catctgttag tttttcnecn 180
 aagtttgta tgacgtgacg tagttctgct gacttgata aaccattgcc atccttgta 240
 aagactcggg atgcttcacg gatttcttct tcaactatct tatctttcan ttttcnagcc 300
 atcatagta aaaaattcggg gaantcaatg gngccattac catcagcacc cacttcattg 360
 atcatatctt gnaattcaan ctctgttggt gtntgaccc antgaccnca nggacaagtt 420
 ccaagttccc ttgtgtgtg aaggggtgcca nctcgtgccc gaattccttt gggntccnac 480
 gangggctna accctgcana gngccgcga anctccaan cttttggttc ccttttanat 540
 ngagggttaa atttcgaact ttgnttttt tcc 573

<210> 291

<211> 819

<212> DNA

<213> Homo Sapiens

<400> 291

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cacgtgtcga	ggcagcaagt	ctaggcgcca	gtggcaaaag	ctactctgtt	gttgcccaag	180
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agattctgaa	tgctgttaca	gttcacgaga	aactgtccat	actcatccct	ctggggccct	420
gtggcctgca	gaagagcact	catgtactgc	tggggcacag	tgagcagaga	ggtgcctgtg	480
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gtgtacangc	tgctatccac	acccccaaag	gacaaacgct	cccccgctgg	gagccctgct	660
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gcatactgtg	gtggcctcat	ccacggncna	aaccanggta	aggcaaggcc	catgatgcca	780
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<210> 292

<211> 664

<212> DNA

<213> Homo Sapiens

<400> 292

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tccaagatct	gtgccaatgt	gttttgtgga	gcgggcgggg	aatgtgcagt	cacagagaaa	120
ggggaaccca	cctgtctctg	catttgagcaa	tgcaaacctc	acaagaggcc	tgtgtgtggc	180
agtaatggca	agacctacct	caaccactgt	gaactgcctc	gagatgcctg	cctcactgga	240
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gccagccccc	ttgtttgcta	tcagtccaac	cgtgatgagc	tcgcagctgc	catcatccaa	360
tggttggaan	ctgagatcat	tccagatggc	tggttctcta	aaggcagcaa	ctacagtga	420
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<210> 293

<211> 719

<212> DNA

<213> Homo Sapiens

<400> 293

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aaacagaaact	tgtttanatt	gttttctgaa	gtttgactac	ttaaaaacat	agggtgtaaag	180
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<210> 294
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<212> DNA
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cgtatccaga ccaggagaa aacaaagtgt cttagggggc tctgtgttga tgcctcatt 540
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atgcagatgg agnctgagac cnaaggtgga cngttnacc gcctgtgtcc ggtgcccggt 720
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<210> 295
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<212> DNA
<213> Homo Sapiens

<400> 295
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gcagaactca agaggaatgt ggatttgcct tggggagttc aatgttcag ggtaaaagta 600
gtcctggatg ataaccatgt tccaaatgac taagtgaaga gacactgtgg gttcctgcct 660
tttaacaaaa tgggggtact cctgcccttc ctcccanaa atgtccaa 708

<210> 296
<211> 652
<212> DNA
<213> Homo Sapiens

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aacagaaact tgtttanatt gtttcttgaa gtttgactac ttaaaaacat aggtgtaaag 180
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tggctcctag atcaagtgtat tctacgggat anacgacaag ctgcctattt tacacagaag 540
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652

<210> 297

<211> 879

<212> DNA

<213> Homo Sapiens

<400> 297

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aacagaaact	tgttttagatt	gtttcttgaa	gtttgactac	ttaaaaaacat	aggtgttaaag	180
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catttcaaga	ccggaacaaa	ttgggagttt	tgaaaaaagt	ttttaaatng	ggaatggggt	840
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<210> 298

<211> 697

<212> DNA

<213> Homo Sapiens

<400> 298

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aaggacatag	ctttgggaacc	taaggaaacaa	aaactatgaag	acaggcagag	caatacacct	180
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<210> 299

<211> 510

<212> DNA

<213> Homo Sapiens

<400> 299

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ttccnactna	aatttttttt	aagtttaaat	cnttcccn	ttaaatttcn	nanagtgtcc	300
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taatttttta	ctttaacnnc	taatgttct	tttctgaa	nntaattaan	aatgttgaa	420
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<210> 300
 <211> 625
 <212> DNA
 <213> Homo Sapiens

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taaatgaaac	attagttata
cccactgagg	aagcagaaaa
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caactcctgt	taactgtgaa
cagcctgata	tcttggtctc
240	
ttctacacca	ataaatgaag
gacagactgt	gttagacaag
gtgctganc	agtgtgaacc
300	
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gtttgcaata	cagttgaatt
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aaaagggang	ctcagttatt
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480	
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 <212> DNA
 <213> Homo Sapiens

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gcaaaatcat	tataaaaaa
120	
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aantttaaat	catncaactct
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360	
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taagtacat	tttcatganc
agtaattaaa	atatnttgaa
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atgaatgctt	taaaaaataa
atcttttaaaa	aataattcca
660	
aaaataaagt	tcaaatattg
cacaaaaata	atttaactgt
aaaattact	nctagtgtta
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792	

<210> 302
 <211> 738
 <212> DNA
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300	
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ggaaaaaaat	tagtttaaaa
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360	

taatttttta	ctttaacact	taatgtacat	tttcatgagc	agtaattaag	atatgttgaa	420
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<210> 303
 <211> 635
 <212> DNA
 <213> Homo Sapiens

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<210> 304
 <211> 847
 <212> DNA
 <213> Homo Sapiens

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<210> 305
 <211> 767
 <212> DNA
 <213> Homo Sapiens

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<210> 306

<211> 1659

<212> DNA

<213> Homo Sapiens

<400> 306

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<211> 831

<212> DNA

<213> Homo Sapiens

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<210> 308

<211> 833

<212> DNA

<213> Homo Sapiens

<400> 308

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gagacgactg actgtgacag gggccgggga gctcttcaag gggccgtttt ctccaagtct 180
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<210> 309

<211> 1320

<212> DNA

<213> Homo Sapiens

<400> 309

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aagctcgact	cgcttggtac	aacttttcca	gntacaaaat	acttgaagaa	acagagcagg	900
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<210> 310

<211> 1030

<212> DNA

<213> Homo Sapiens

<400> 310

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<210> 311

<211> 546

<212> DNA

<213> Homo Sapiens

<400> 311

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gctaaaaata	aaagcacaga	aggaaaaaat	aattgatttg	tacataagct	aaattataat	180
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gcaagtggag	cttaacagca	ttatggttca	ttacnggggt	tggnntatat	acctttttca	420
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<210> 312

<211> 518

<212> DNA

<213> Homo Sapiens

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 ctncgtgtgc tgttgctgtc gggcantnca agggaaaacc ccccgacaa actgggataa 360
 ngtgacctgn ttgcnacant ctngggccct attncntac ctgncctgna aatncttccc 420
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 aacctcncac ctttggttan cgggggtccc ctnccccc 518

<210> 313
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 <212> DNA
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<210> 314
 <211> 516
 <212> DNA
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<400> 314
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 aggcctgctta gccaccaccag cctatcacac tgcccgcctc acgttgggca gccacataaa 180
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 aagtgcggga cgtcctatta gattaccgt cccccaggca ttactcttta ttgagtaag 360
 acctctaaaa ggtggagctg tncaaaccaa aaaaaatcta aacgatttta agaanagcag 420
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<210> 315
 <211> 677
 <212> DNA
 <213> Homo Sapiens

<400> 315
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 aaatttgttc tcaaaacaaa tatactcatt tcaagaact tccaaactct cttcaactgt 180
 cagcaaaatt tggcttaaa aacctggcta ttcatttgct tcaatgttca ggagcaacct 240

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cacagaaacc	agcatttcat	catgaaagca	ggaagacata	cgggcaagag	tgcaaatgga	480
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acacagccca	ctaagaggtt	ggcagtgaga	gttctgaaag	accagtatga	tgacttgatan	600
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<210> 316

<211> 843

<212> DNA

<213> Homo Sapiens

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gtcttaatac	aaaggttaggt	tatgaaaatg	tatattaatt	tgagatatag	aaaagtttttc	180
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ggaggaataa	tctgttgagg	ttagtgcctt	caagcagacc	ccataacttt	gctacaccgc	420
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gga						843

<210> 317

<211> 835

<212> DNA

<213> Homo Sapiens

<400> 317

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<210> 318

<211> 582

<212> DNA

<213> Homo Sapiens

<400> 318

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<210> 319

<211> 827

<212> DNA

<213> Homo Sapiens

<400> 319

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<210> 320

<211> 598

<212> DNA

<213> Homo Sapiens

<400> 320

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<210> 321

<211> 808

<212> DNA

<211> Homo Sapiens

<400> 321

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ccctatccaa	accnttaac	aagaaagacc	tttaanaag	tccaatgtcc	ngtnaccaac	780
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<210> 322

<211> 629

<212> DNA

<213> Homo Sapiens

<400> 322

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tacattgcct	ttttgcctgt	agagaaccca	tgaggagagg	ggttctcagc	cttcccagtg	180
gaaccttct	cttagttgca	ctggcattgg	gggatctcat	tgtgggct	aggtccaggc	240
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<210> 323

<211> 798

<212> DNA

<213> Homo Sapiens

<400> 323

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ccaaaatgac	aggttcagca	ccaccctct	ctccaacac	taacaaagag	atgaagaaca	180
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agaagattcc	tcagcaatt	gaggagctaa	aaagcaaggt	ttcttcagat	gctcttgata	480
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acccagagac	acagtcacgc	atgcctgatg	taccatata	accagatttg	gatatcgaa	660
tagattttcc	cagagctgct	gaaggagcct	tgatatggga	aaatgaattt	ttattaccac	720
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798

<210> 324

<211> 754

<212> DNA

<213> Homo Sapiens

<400> 324

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tctctctaca	taaccttcta	aggcttcagt	aactaaaatg	taaaaccaaa	caaaacaaaa	180
ccccaaaaa	aaacaaaaac	cccagcctat	tagtttacag	tttattttta	aaattccgaa	240
agacactgca	agttctaaac	tttttagtag	gctaccata	cacaaccatc	tggttaagaa	300
cccagtaaaa	gagccccctt	ccaaggaagc	tttgcaacag	tagagtgttg	caatatggat	360
gtttcttact	acaagaaaaa	aattatacat	ggcacattct	cattcatatt	ctgtaattga	420
aaaagttaac	acataccta	atcaataaaa	taataataaa	aaaagaattt	gaatgtattt	480
gttaagtatc	ctaaaaccac	tacatagaat	aatggcaact	ttcactcaca	gattatttac	540
atggttaaac	ccagcgtggg	tacactgcta	caaaactcaa	aacagaagga	gtaaaactga	600
aatgttttcc	ataataaaga	tctagcanca	tgactatcct	aatgccgttt	tatcccgaat	660
gcttctggga	acgttcccct	ttaatccggt	gtctcatcca	attcaaaaan	tggcctttac	720
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<210> 325

<211> 854

<212> DNA

<213> Homo Sapiens

<400> 325

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tgagaagaag	gcagctgttg	aagattcagg	gaccacagtg	gaaaccaatta	agctaggagg	180
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agaaaatgtg	gatcagcggc	aggccattga	agatgaactt	cgtgagcaca	ttgaaaaact	300
ggaacgcaga	caggccactg	atgatgcctc	actattgatt	gtcaaccgat	actggagtca	360
gtttgatgaa	aacatccgta	tcctccttaa	acgttatgat	ctggagcagg	gcttggggaga	420
cctactcaca	gaacgaaaag	cccttggttg	gcctgaacca	gaaccagact	ctgatagcaa	480
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acanggaatt	gacaagatct	tcctcaggaa	aaagcatcgc	aaccatggtc	tcaaggngtt	780
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<210> 326

<211> 760

<212> DNA

<213> Homo Sapiens

<400> 326

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catagctcac	caagttctct	ccgtatcaaa	tttccagaat	accacacaga	tttcttcacc	180
agctcagtc	tgactcaacc	tcttcaatct	ttattttcatt	agaagacaaa	gggtcatatt	240
attttaaatt	attctagtct	caagaaattt	aaagacttga	agtagtagag	cattcaaaac	300

ttaaataact	taaacaagaa	agccagctga	tcttaacaag	ttactctgct	agtaaatggg	360
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tagcacaatt	ataccatttt	gtaatccaca	ttcacaaagaa	gtttgctaca	caaatgaaga	480
aaactttgtg	cccatagaca	acttattttt	taaaatatca	ctcccaaaaa	gtagccatgt	540
ttccactttt	gttccctttt	ccacatcaaa	aataccaact	tgattttctt	aggaggaatg	600
gacaatccaa	gtttatacaa	gtgggctggg	aaaaagaaaa	cactgaaaag	tctaaaagca	660
caagataaac	aaagcctggg	aagggaagac	agttaaagat	tatttgtttc	caantcaate	720
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<210> 327

<211> 852

<212> DNA

<213> Homo Sapiens

<400> 327

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gcagaccaaa	tcttgtcaga	cagatgatac	ttggaggaca	gaatatgttc	cagtgccctat	120
ccctgtgcct	gtgtatatcc	cagttccctat	gcacatgtac	agtcagaata	ttcctgttcc	180
tactacagtt	cctgttctctg	tgccagttcc	tggtttttctg	cctgtcccat	tggaacagcag	240
tgagaagatt	cctgcagcaa	ttgaggagct	aaaaagcaag	gtttcttcag	atgctcttga	300
tacagagttg	cttacaatga	cggatatgat	gagtgaaagac	gaggggaaaa	cagagacaaac	360
caacatcaac	agtgttaatta	ttgaaacaga	tataattggt	tcagaccttt	tgaagaacctc	420
tgacccagag	acacagttcca	gcatgcctga	tgtaccatat	gaaccaagat	ttggatatcg	480
aaatagattt	tcccagagct	gctgaggagc	ttgatattga	aaatgaattt	ttattaccac	540
ctgttttttg	cgaagaatat	gaggaacacg	ccaagacctc	gatctaaaaa	aaaagggagc	600
caagagaaan	gctgtatcaa	ggataccaag	tctcatgatg	ataagttctga	caatttcaga	660
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aaactaagnn	acttggatga	aagatcntcc	gggnaattag	aatgagttaa	aatccttcca	780
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<210> 328

<211> 799

<212> DNA

<213> Homo Sapiens

<400> 328

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cattacagta	caccaatatt	gacagcatte	tcttgtctat	ttttggtaca	gaagatggta	120
tctctctaca	taaccttgtta	aggcttcagt	aactaaaatg	taaaacaaaa	caaaacaaaa	180
ccccaaaaa	aaacaaaaac	cccagcctat	tagttttacag	tttattttta	aaattccgaa	240
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cccagtaaaa	gagccccctt	ccaaggaagc	tttgcaacag	tagagtgtgtg	caatatggat	360
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aaaagtgtaca	aacataccta	atcaaatata	taataataaa	aaaagaattt	gaatgtattt	480
gttaagtatc	ctaaaaccac	tacatagaat	aatggcaact	ttcactcaca	gattattttc	540
atggtaatat	ccagcgtggg	tacactgcta	caaaactcaa	aacagaanga	gtaaaactga	600
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taacctttac	tagaagaaac	cgtncagca	tattttcaan	gggtttcccg	tccaattgaa	780
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<210> 329

<211> 978

<212> DNA

<213> Homo Sapiens

<400> 329

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cagaacataa	attattagga	aacattaaaa	atgtggccaa	gacagctaac	aaggaccatt	180
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caagctctgaa	gagaccctgg	atgaggggtcc	cccaaaatat	actaaatcct	gttctgaaaa	360
agggagataa	aaccaacttt	cccaaaaagg	gagatgttgt	tcactgctgg	tatacaggaa	420
cactacaaga	tgggactgtt	tttgatacta	atattcaaac	aagtgcacaa	aagaagaaaa	480
atgccaaagc	tttaagtttt	aaggtcggag	taggcacaa	tatcagagga	tgggatgaag	540
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actggtcaag	gagaactttt	tccttttacc	tcattgttga	aacttaagtg	gtcacaataaa	960
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<210> 330

<211> 1017

<212> DNA

<213> Homo Sapiens

<400> 330

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caggagacct	ggaccagacc	acgatgtgga	aacgctggct	cgcgctcgcg	ctcgcgctgg	120
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agggggccca	gaccagacn	gaggangaga	tgancngata	tgtccaggag	ctccaaagct	960
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<210> 331

<211> 799

<212> DNA

<213> Homo Sapiens

<400> 331

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gcctggaagc	caagccaaaa	acgagacagc	caagccgatg	atcccgaaaa	cattaaaaacc	120
caggagcttt	ttagaaaaag	tcgaagtatc	ttaataaat	tgacaccaca	gatgttcaat	180
caactgatga	agcaagtgtc	aggacttact	gttgacacag	aggagcggct	gaaaggagtt	240

attgacctgg	tctttgagaa	ggctattgat	gaacccagtt	tctctgtggc	ttacgcaaac	300
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aatttccgga	agctgctact	gaaccgttgc	cagaaggagt	ttgaaaaaga	taaagcagat	420
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aacatcaagt	ttattggaga	actctttaa	ctcaaatgc	tgactgaagc	catcatgcat	600
gactgtgttg	tgaagctgt	aaagaacct	gatgaagaat	ccctggagtg	cctgtgtcgc	660
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cagtacttta	atcagatgga	gaaaattgtg	aaaggaaaga	aaaacctcat	ctaggatcgg	780
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<210> 332

<211> 881

<212> DNA

<213> Homo Sapiens

<400> 332

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gcattcagtc	caaccgtgat	gagctccgac	gtcgcacat	ccagtggctg	gaagctgaga	480
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<210> 333

<211> 810

<212> DNA

<213> Homo Sapiens

<400> 333

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atgcctgcct	cactggatcc	aaaatccagg	ttgattacga	tggacactgc	aaagagaaga	180
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<210> 334

<211> 808
 <212> DNA
 <213> Homo Sapiens

<400> 334

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caagttaaat	gcaatataga	agcctactaa	atacaaatat	aagttcacia	acacatatgc	120
aacagaaact	tggttagatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggtgtaaag	180
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acagatgcta	tagtgtttac	aaaactacac	acacagagaa	agcccaagga	agcctgcagg	360
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<210> 335
 <211> 758
 <212> DNA
 <213> Homo Sapiens

<400> 335

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agagaagacc	aggtgtccag	agagtggacg	aaggtgggtg	gaacactgta	caaggggcca	180
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<210> 336
 <211> 785
 <212> DNA
 <213> Homo Sapiens

<400> 336

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agatttgatg	ccaaaaaa	aaaaatcttt	cttaccttgt	tcaccccaaa	ctttctcaaa	360
ctgtgactaa	atgctatacc	ttaaaacaaa	catgaggngc	atcttgaaag	ggagggaat	420
ttatttctct	gcttttctat	tatacaagtt	gtttacagaa	actgcaaat	aaaaaattac	480
actggcattt	gcagtcctta	aaataaaata	aaagttctca	actttttttt	ttttgtcaaa	540

cattttttta agtatgagtc cttgttttaa aagaaaagat taaaaacagaa aatattttct	600
ataaatacnt gnatttttggg ttttaagggt cccgccctaa ggnttgaagg ttacttttat	660
cccaggaccc tttttccccc atggaacccc tttttttcnc ttttcccttt tcccacttcg	720
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<210> 337

<211> 643

<212> DNA

<213> Homo Sapiens

<400> 337

ggaagatggc ggcggccgtt ccacagcggg cgtggaccgt ggagcagctg cgcagtgagc	60
agctgcccaa gaaggacatt atcaagtttc tgcaggaaca cggttcanat tctgtttctg	120
cagaacataa attatttagga aacattaaaa atgtggccaa gacagctaac aaggaccact	180
tggttacagc ctataacat ctttttgaaa actaagcgtt ttaanggtac tgaangnta	240
nntaaagtgt ctgancaagt naaaaatggn aancctantg aagataaanc caaagaaaac	300
aagtntgang agaccctgga tgagggtcca ccnaaatata ctaaatctgn tctgaaaaag	360
ggagataaaa ccaactttcc caaaaaggga gatgtgtgtc actgctggta tacaggaaca	420
ctacaagatg ggactgtttt tgatactaatt attcaacaa gtgcaaaagaa naagaaaaat	480
gccaaagcct taagttttaa ggtcggagta cgcaaaagtt atcanaggat ggggatgaag	540
ctctcttgac tatgagtaaa ggagaaaaag ctngactgga aaatggaccc aaaatggctt	600
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<210> 338

<211> 831

<212> DNA

<213> Homo Sapiens

<400> 338

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taaggagatt atctctcaaa agctgggacc aagtaacaaa attttattaa ctccctgaat	180
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caaggccaag ttttatcatt gttgctaata tcccttagagc tgaagcactg ctatttcaat	300
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gctgtccttt ctctccgtaa gccattctg gttcaatctc cagtcgagcc ttttctcctt	420
tactcatagt caagagagct tcatcccatc ctctgataac ttgacctact ccgaccttaa	480
aacttaaaagg ctgggcattt ttcttctctt ttgcacttgt ttgaatatta gtatcaaaaa	540
cagtcaccatc ttgtagtgtt cctgtatacc agcagtgaac aacatctccc tttttgggaa	600
agttgggttt atctcccttt ttcagaacag gatttagtat attttggggg accctcatcc	660
agggctctct cagacttggt ttctttgggt ttatcttcat ttaagcttca cttttttac	720
ttgctcagac acctttacta tactttcagt acccttaaaa ccgcttaagt ttcaaaaaag	780
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<210> 339

<211> 758

<212> DNA

<213> Homo Sapiens

<400> 339

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cagtagctgt cagagggaaa gactgtgcag taattgtcac acagaagaaa gtacctgaca	180
aattattgga ttccagcaca gtgactcact tattcaagat aactgaaaac attggttgtg	240

tgatgaccgg	aatgacagct	gacagcagat	cccaggtaca	gagggcacgc	tatgaggcag	300
ctaaactggaa	atacaagtat	ggctatgaga	ttcctgtgga	catgctgtgt	aaaagaattg	360
ccgatatttc	tcaggtctac	acacagaatg	ctgaaatgag	gcctctctgt	tggtgatga	420
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actactgtgg	gtttaaagcc	actgcagcgg	gagttaaaca	aactgagtc	accagcttcc	540
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ttacatgcct	gtctactggt	ctatcaattg	atttcaaacc	ttcagaaata	gaagtggag	660
tagtgacagt	tgaataatct	aaattcagga	ttcttacnng	aagcagagat	tgatgcttac	720
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<210> 340

<211> 840

<212> DNA

<213> Homo Sapiens

<400> 340

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ggtaagtggc	atcacggatc	tggtaaacta	acgacaatgt	ttagtctctc	tctgctagag	180
caacaagggt	agcatcaatc	tctgcttctg	taanaatcct	gaatttagga	ttttcaactg	240
tcactactcc	aacttctatt	tctgaagggt	tgaatcaaat	tgatagaaca	gtagacaggc	300
atgtaattgc	agttttccact	gtctgttcaa	atgtccaatc	aaattttctc	ttcacttttt	360
tttcaaggaa	gctggttgac	tcagtttggt	taactcccg	tcagtggtgt	ttaaacccac	420
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ttaaaatcat	acaacaacca	agaggcctca	tttcagcatt	ctgtgtgtag	acctgagaaa	540
tatcggaact	tctttttcac	agcatgtcca	caggaatctc	atagccatcc	ttggatttcc	600
agttagctgc	ctcatagccg	tgcccttctg	tacctgggat	ctgctgtcag	ctgcattccg	660
gtcatcacac	aaccaatggt	ttcagttatc	ttggaataag	tgaggtcact	ngctggaat	720
nccataaatt	tggcaggnac	ctttctttct	ggggngacaa	ttactggccc	agtcttttcc	780
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<210> 341

<211> 793

<212> DNA

<213> Homo Sapiens

<400> 341

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caagttaaat	gcaatataga	agcctactaa	atacaaatac	aagttcacaa	acacatatgc	120
aacgaaact	tggttanatt	gtttcttgaa	gtttgactac	ttaaaaacat	aggngtaaa	180
gaaagacatt	canactggtc	cncnggggct	tgntagcagg	cagaggaacc	ctgctttcca	240
aaaactgnta	tagtccanan	tcnccggcat	ngggaatgnt	tccatggacn	ctggatetta	300
acagatgcta	tagggtttac	aaaactacnc	acncagagaa	agcccaagga	agcctgcagg	360
ctaagcccta	tgctttttaga	gggctgaagg	aaccaaacct	agtttaatcc	tgtttgnntg	420
ctccatgcaa	aacttttttg	aaactcccc	agactaggct	ttttancagn	nttccattga	480
atggggcnnc	aaancnttgg	gaattttacg	gntnaaancn	aaagntngcc	ttnttttccc	540
ccgaaagctt	tgaaaaaactt	ttcagngggg	atnggggaat	ttggnttntt	ggggnggttc	600
aattgttnc	ngggtaaaaa	ganacccttg	gggaggnaaa	cccctgnttt	tnaannggcc	660
ttaggggaaa	naaccnttgg	gggtntcntt	ggntttttaa	caaaattggg	gggncntttt	720
ggnccttctc	cccaaaaagg	ggccanggn	ctgnggaaaa	aaccttttgg	antaaggggg	780
gncccnctt	gga					793

<210> 342

<211> 906

<212> DNA

<213> Homo Sapiens

<400> 342

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aggggtcgtc	ctaccaagta	gaatatgctt	ttaaggctat	taaccagggt	ggccttacat	120
cagtagctgt	cagagggaaa	gactgtgcag	taattgtcac	acagaagaaa	gtacctgaca	180
aattattgga	ttccagcaca	gtgactcact	tattcaagat	aactgaaaac	attggtgtg	240
tgatgaccgg	aatgacagct	gacagcagat	cccagggtaca	gagggcacgc	tatgaggcag	300
ctaactggaa	atacaagtat	ggctatgaga	ttcctgtgga	catgctgtgt	aaaagaattg	360
cagatatttc	tcaggtctac	acacagaatg	ctgaaatgag	gcctcttggt	tgtgtatga	420
ttttaattgg	tatatagtaa	gagcaaggcc	ctcagggtata	taagtgtgat	cctgcagggt	480
actactgtgg	gtttaaagcc	actgcagcgg	gagttaaaca	aactgagtc	accagcttcc	540
ttgaaaaaaa	agtgaagaag	aaatttgatt	ggacatttga	acagacagtg	gaaactgcaa	600
ttacatgcct	gtctactgtt	ctatcaattg	atttcaaacc	ttcagaaata	gaagtgtgag	660
tagctgacgt	tgaataatcct	aaattcagga	ttnttacaga	agcagagatt	gatgctcacc	720
ttgtgtctct	agcagagaga	gactaaacat	tgtcgttagt	ttaccagatg	cgtgatgcca	780
cttacctgtg	tggttggtaa	caacaaacca	acatcatgga	gggtccctgga	tgaaaaaagg	840
agcctctccc	actcctccta	ccaccgaagt	ggttaggact	ctatataaat	aaaacaaggc	900
ttttgg						906

<210> 343

<211> 875

<212> DNA

<213> Homo Sapiens

<400> 343

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tcgaggtgtt	tttaccacca	agactaaaaa	aagataggaa	aaacttgttg	gagaccogag	120
tgacacatca	tggcagagaa	ctgaggtcca	aaatagctga	aaccttggga	cttcaagaaa	180
attatatcaa	aattgtcata	aataagaagc	aactacaact	agggaaaaac	cttgaagaac	240
aaggcgtggc	tcacaatgtg	aaagcgatgg	tgcttgaact	aaaacaatct	gaagaggacg	300
cgaggaaaaa	cttccagtta	gaggaagagg	agcaaaatga	ggccaaactc	aaagaaaaac	360
aaattcagag	gaccaagaga	ggactagaaa	tactggcaaa	gagagcagca	gagacagtgg	420
tgatccaga	aatgacaccg	tacttagaca	tagctaacca	gacaggcaga	tcaatcagaa	480
ttcccccatc	agaaaagaaa	gcccttatgt	tagctatggg	atatcatgag	aagggcagag	540
ctttcctgaa	aagaaaagaa	tatggaatag	ccttgccatg	tctgttgagc	gctgacaaat	600
atttctgtga	gtgttcgaga	gagctgctgg	acacagtgga	taactatgcc	cgtcttcagc	660
tgatataagt	gtggtgttac	tttcgcctgg	aacagctgga	atgccttgat	gatgcagaaa	720
aaaaattaac	ttggnccaga	aatgctttaa	aaattgggtc	ggagaaatcn	tcgaaactgg	780
tcccntaaaa	nggaattgtg	gggaaaagag	aangtctggt	tctaagactn	tacttacttt	840
nagggatccg	aacttttcca	gggggaatga	tgtaa			875

<210> 344

<211> 629

<212> DNA

<213> Homo Sapiens

<400> 344

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cccatcagtc	caaatcggac	cacccacact	ttgaaaaagt	tggagcatth	cagccggctc	120
cgcatgatcc	atcctgtctt	cagtcagtcg	cttctgggaag	ggaggggaaag	ctctggatgc	180
acctggcact	caatccactc	ggcacctggc	tgctgctgctg	gtcctggggc	tggaaaggaa	240
tcccactcgg	cacacatcta	cagaggagtg	cgtggcgagc	tgaggacggt	tactgctgga	300
gcccacacac	agcgaactac	atacttttag	aaagagcctc	tgtcacatgg	ctagaacaac	360
aacaacaaca	aagaaaaccc	acaaaaaac	tggagaaaat	atatctaaat	ctctgatagg	420

tctcttagct	agcagtgagt	tcagtatgac	agcacagagt	ctaaaaatat	taattaaaaa	480
taaattgctt	tggttagcat	ttaaaccctt	cccattcaat	agaagatttc	tgtaatgagg	540
aatgctgaat	atatataaag	cctgccactc	aatctttgaa	tttcnggggg	cgcaatttta	600
ctgaactaag	anccctaaaa	caactggcg				629

<210> 345

<211> 724

<212> DNA

<213> Homo Sapiens

<400> 345

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cttttcattt	aaaaagttat	atttaatttt	tggggggcctt	aattaaaaatt	taacatttaa	180
ccatgngtnn	tttttttgta	aacagtcctac	atgtcaacaa	atggataaag	gttaacaaaag	240
gcaaatnctg	acttcatttg	tgttttaaac	acgattatat	gaatttttct	tttttaatta	300
aaaaaatgac	ataaaacctat	tcatataggt	cctcttctct	caactgcttt	gagatatagc	360
tttaaatatg	ggtagatcaa	gacaagtaat	ggttgnaatc	tcctatcttg	catagaaaaag	420
aaaaaaaata	aggaacttat	ttccttccta	aggtctcagc	tagtttctta	ngtcttttct	480
tcagctccaa	tggaatttnc	tcatagcact	tcctacagac	tggtctcatg	tcaaaactcca	540
caaaacttatt	cttgantgtt	aatttagtgt	tgacaggtana	acaggcaaaag	cagttcacgcg	600
accaggcctt	attaagagca	gagaccccca	tcaccttcta	taacacgatt	gcagttgggaa	660
gcaaacatca	ccaaatagct	gggttatagn	gagtttcaca	atatgcccg	gccttttctt	720
tcaa						724

<210> 346

<211> 907

<212> DNA

<213> Homo Sapiens

<400> 346

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agccgaaagt	gttcttaaga	agcctgtagt	tgactgtggt	gtttcgggtc	cttgtttcta	120
tactgatgca	gaaagacgat	cagtgtatga	tgcaacacag	attgctggtc	ttaattgctt	180
gcgattaatg	aatgaaacca	ctgcagttgc	tcttgcatat	ggaatctata	agcaggatct	240
tcctgcctta	gaagagaaac	caagaaatgt	agtttttgta	gacatgggcc	actctgctta	300
tcaagtttct	gtatgtgcat	ttaatagagg	aaaactgaaa	gttctggcca	ctgcatttga	360
cacgacattg	ggaggtagaa	aatttgatga	agtgttagta	aatcacttct	gtgaagaatt	420
tggaagaaa	tacaagctag	acattaaagtc	caaaatccgt	gcattattac	gactctctca	480
ggagtgtgag	aaactcaaga	aattgatgag	tgcaaatgct	tcagatctcc	ctttgagcat	540
tgaatgtttt	atgaatgatg	ttgatgtatc	tggaactatg	aatagaggca	aatttctgga	600
gatgtgcaat	gatctcttag	ctagagtggga	gccaccactt	cgtagtgttt	tggaacaaaa	660
ccaagttaaa	gaaagaagat	atttatgcag	tggtggtgct	tggtggtgct	acacgaatcc	720
ctgcggtaaa	aggagaagat	cagcaaaatt	tttcggtaaa	gaacttagta	caaccnttaa	780
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tcaaagtcgc	agaantttct	atcactgatg	tagtaccata	tccatattct	tgaaaaggga	900
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<210> 347

<211> 711

<212> DNA

<213> Homo Sapiens

<400> 347

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tntttgtctg	aatccgaagg	cncagctgng	tctgtaccct	gctcancagc	ctggggggcct	120
gggttgtctc	cttgnccatc	cactgggtcca	ttctgtctcg	catttttttg	ttccnttttt	180
ggaggttcca	ctttgggttt	gggctttgaa	attatagggc	tacaagtact	tgncagctcc	240
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ttctgcaaat	ttagctttgt	attcatccac	tccattgctt	catttgggct	ttttctacc	360
tttgcattgt	cagcagcatc	cgaatgatca	tactggctct	ccttgncttt	gaaagagctg	420
attattttca	tatactgntg	aattctgntc	cctagtctct	caataaattt	tggtcgctct	480
tnaaattctc	ggaaaacgtat	nttaatagtg	tgacctaaat	tttttaattc	agccaaactta	540
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ccagtttcaa	agtaaaaactg	ttacgancat	nttcactnnc	aaactttctc	tattcnccac	660
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<210> 348

<211> 862

<212> DNA

<213> Homo Sapiens

<400> 348

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attcttcccg	aagtcttctg	tggagtgtct	ttatttctct	ttccatgtcg	tgcttttggg	180
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cagcacgatg	ttgttctact	tcactctcaa	gttcaaagat	gggttctttc	atgtcactcc	300
tttctgtttc	tttttcatcc	aggtctgata	ttaatTTTTc	taacgtcata	ttcaaatctt	360
caatttgttt	cttagcttct	tcttgggaag	ctcgggtatc	atcctctacc	ttagcaatgg	420
catcctgtaa	tcgattggca	tcatttcggg	tatgagccag	atcttctctg	aagctactag	480
ccaaagtctc	tgctttttct	ttgtccagcc	tgacactctc	caggaggtcc	tgaatatcca	540
atttgnctcc	agagttatgg	atagaataca	gctctgccac	tttctgcttt	tcattctcca	600
gctgagcctt	caggcgattc	atctctatct	ggtcactggc	cactgnggct	ttgnattctt	660
ctaacgtggc	tgncaaagct	gcttttctct	tctgctcnac	tcaataaatt	tcgctccata	720
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aaggaaagct	ggttcccggt	tc				862

<210> 349

<211> 832

<212> DNA

<213> Homo Sapiens

<400> 349

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caaatgggtc	aaataatgct	gaacacgaaa	cattgactaa	tacaagtgtc	ttaaatatga	120
aaacaaaatt	ttttttaaaa	aagcaaaaaga	ataaagaata	tatacaaaaag	ggacttggaa	180
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gaggtgtgtc	tatacataaa	cttcagtcac	ttttgcttgt	gcagaatcat	cccaatcttc	360
ccaagactga	atgggcagtc	ctgtggcttt	cttctctttc	catattccca	acaaggctac	420
gtgaagttca	actcttgatg	agccgcttac	aacagcagtt	ccttaggagc	caacatgaca	480
gggtgggtcag	atttccctat	gagaaacaaa	actggccacc	tacagcaaaa	tatcaaaatg	540
ggtaagtctc	tccttctctc	tcctctgtat	tataataaac	atatctcctt	tcaagactat	600
tatttccatc	atgcttattc	cttcacaaat	ctaaaccttg	aggtgatatg	aaggaaacca	660
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ggtataaata	attgggcagc	ttgggaataa	agctcatttt	tttnccctca	gg	832

<210> 350
 <211> 782
 <212> DNA
 <213> Homo Sapiens

<400> 350

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natttttttaa	aaaagcaaaa	naataaanaa	tatatncaaa	ngggaccngn	aatcngnaag	180
cngatnccaa	aaccnaaata	agtaaaaaan	ccanggggaa	ncngancat	tcnacctnng	240
nttngnaaaa	gggctatcat	ncaacattca	gncagntgaa	nanggatngg	nanaggnggg	300
ncnatncata	ancttcagnc	attttngctn	gggcaaaatc	atcccaatnt	teccaanact	360
gaanggncag	cccnggggct	ttcttccttt	nccanattcc	caacanggnt	acnggaagtt	420
caactntnga	ngancggttt	acaacagcag	ttccttagga	nccancatga	caggggggnc	480
aaatttccct	atgagaanca	aaacnggcc	cctacagcaa	aatatcaaaa	ggggnaagnc	540
cttctctcct	cttctctcng	attatatnca	ccatatctcc	tttcangact	atnatttcca	600
tcaggctnat	tccttcacaa	atntaaacct	tgaggggata	tgaaggaacc	caacttcngg	660
aaangaaaa	tcaattcana	aattgaagaa	acctggcagg	tatacaatac	ccccccagg	720
catntcaana	tccttgccac	aagnnccaat	tcagggnctt	ggtaccagcc	ccatagaana	780
aa						782

<210> 351
 <211> 775
 <212> DNA
 <213> Homo Sapiens

<400> 351

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tgagaccaca	ggagttgaca	tcactaaaa	tcaagtcaag	agatgtgaga	ccatgagaga	180
gaagcacatc	cagaaacagc	aggagaggga	aaaatcagtc	ttgcacacctc	ttcggggaga	240
tgtagcatct	tgcaatcccc	aagtggcaga	gaaaccagtg	ctcactgtctg	tgccaggaa	300
cacacggcac	ctgaccaagc	ggcttcccc	aaagtcatcc	cagaaggttg	aggtagaaa	360
ctcagggagt	ggagactcat	tattgaatgt	gaaatgtgca	gcacagacct	tggaaaaaag	420
gggtaaaagt	aaacccaaag	tgaacgtgaa	gccatctgtg	gttaaagtgtg	tgctcatcccc	480
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 <212> DNA
 <213> Homo Sapiens

<400> 352

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<210> 353

<211> 875

<212> DNA

<213> Homo Sapiens

<400> 353

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<210> 354

<211> 705

<212> DNA

<213> Homo Sapiens

<400> 354

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<210> 355

<211> 862

<212> DNA

<213> Homo Sapiens

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<210> 356

<211> 750

<212> DNA

<213> Homo Sapiens

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<210> 357

<211> 725

<212> DNA

<213> Homo Sapiens

<400> 357

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<210> 358
 <211> 813
 <212> DNA
 <213> Homo Sapiens

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<210> 359
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 <212> DNA
 <213> Homo Sapiens

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<210> 360
 <211> 706
 <212> DNA
 <213> Homo Sapiens

<400> 360
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<210> 361

<211> 726

<212> DNA

<213> Homo Sapiens

<400> 361

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<210> 362

<211> 747

<212> DNA

<213> Homo Sapiens

<400> 362

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<210> 363

<211> 1227

<212> DNA

<213> Homo Sapiens

<400> 363

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<210> 364

<211> 831

<212> DNA

<213> Homo Sapiens

<400> 364

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<211> 785

<212> DNA

<213> Homo Sapiens

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<211> 816

<212> DNA

<213> Homo Sapiens

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aggagacaga gttccttgag ctccgaacca ggatataca accaaatgga ctactgtcag	480
aggatgtagg aatggacatc ccttttgaag agggcgtgct gactccagc gctgcagaca	540
tgaggctcga acctcctaata tctctggatc ttaatgacac tcatcctcgg agaatacaagc	600
tcacagcccc aaatatcaat ctttctctgg accaaagtga aggatctatt ctctctgatg	660
ataactttgg acagtcocaga tgaattgac atcaatgtgg atgaacttga taccctcgat	720
gaagcagatt cttttgagta cctgggcccc tgaagaatcc cacagccaca aagattcttg	780
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<210> 367

<211> 803

<212> DNA

<213> Homo Sapiens

<400> 367

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ttcaaaagatg gagagaggct ttggaaagtg aggaagtgg ctccagatgac ctcttaataa	180
aatgtgaaga atatgatgga gagcatgact gtatgttctt ggatccacca tactcaagag	240
ttattcacaca aagggaacca gaaaataacc aaatgacatc agaaagtggg gccacagcag	300
gaaggcaaga agtggataaac accttttggg atggctgtgg agattattac caactctatg	360
acaaagatga agatagttct gaatgcagtg atggggaatg gtctgcttct ttgctctatc	420
gattttctgg tacagaaaaa gatcaatcct caagtgatga aagctgggag actctgccag	480
gaaaagatga gaatgaacct gagctacaaa gtgatagcag tggccctgaa gaagaaaacc	540
aagaattatc tcttcaggaa ggggaacaga catccttggg agagggagaa attccttggg	600
tacagtacaa tgaagtcaat gaaagcagca gtgatgaagg gaaatgaacc tgccaatgaa	660
tttgcacagc cagctttcat ttgggatgg aacaataacc tggangatga ctctcgtgtg	720
aagtgaagac ttagatgtgg attggagcct attttgatgg ctttgcaaat gggcctagga	780
gttgctggaa gctttttcat aag	803

<210> 368

<211> 809

<212> DNA

<213> Homo Sapiens

<400> 368

attagaaatg accaccgagt atattctgtt tattgtttat gatttacaca gaaaatgatg	60
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tgcattccat	ttaacaatt	cgtatgtatc	taacaaatc	ataaatccag	atcacaaata	180
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tcagattcca	tattataaga	aataagaaaa	tggtaaaaaa	ataaaattag	gttaagtacac	300
aacataaaat	agagaaataa	gataaatgct	atctttatata	tattcatact	tattttcta	360
ttaccttcat	atagtcttaa	ctttttcaaa	aggatccaag	atatgatcaa	ataaatatttt	420
agtattctgaa	cttgccagcc	ttagcttata	ccagagcttg	ttaccatgaa	aatcctaaaa	480
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acagcagctg	tttatagata	gtaggagagc	aagaatgaag	gacagtaaca	gatggaaagc	600
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aaaaccctct	taacaactgg	cagataatag	cttaaatctt	tacaggccaa	ggaagaaata	720
ttttctttgg	ggacagctgn	tatctagaag	aaaaccang	ggccctttaa	tataggccata	780
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<210> 369

<211> 826

<212> DNA

<213> Homo Sapiens

<400> 369

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gaccaccaa	tggtgccagc	aaggaaatc	cagaattgga	agaaagaaaa	acaattccta	180
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aagatcgcca	tgactacac	atggattaca	tacttgtaa	cgtgaagaa	aattcacact	300
caaagccaga	gacctgtgaa	gaaagagaaa	gcatagtcga	attagaattg	tatgtaggtt	360
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cctccttaa	tgaagaaaa	ggtctctctg	cagagaaaa	gtcttctaaa	ggcgatcaga	480
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ttggtgatcc	atcactggat	gccagggact	cagggcctgg	gtggtctggc	aagactgtgg	600
agccgtttct	tgaactcggc	ttgggtgagg	gtccccagct	gcagattctg	gaagaaatga	660
acctctagaa	tctttagcac	tagangaagc	ctntgtgtcca	gtcagcccat	cacaggaaga	720
gttagaacc	gagggcangc	tgggcccga	tgcagtacc	cntgacagt	gaatgggnaa	780
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<210> 370

<211> 783

<212> DNA

<213> Homo Sapiens

<400> 370

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cagacacttt	attctgagca	atccaatgca	tgatagaaaa	accttttagat	atataaaaaga	180
ttaatttttg	cacatctaaa	tgtttctaag	ggaacaaact	actgaggcat	tgtgataaga	240
cgagagtgtc	aaacatagta	ccataactga	atatttataa	ttacatctta	acaaaggcta	300
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cttttcccta	gcccatgcc	aattaaaaat	naatttgggc	ntttaaagaa	taattaaaaat	780
tgc						783

<210> 371
<211> 793
<212> DNA
<213> Homo Sapiens

<400> 371

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caccaagcat	ccctccagta	atgtcaagac	ctgttagctc	ttccctccatt	tcactccctc	180
tgcccccaaa	tcaataaact	gtatttgta	cttccaatcc	catcacaact	tcagctaaca	240
catcagcagc	tttgccaact	cacttgagc	ctgcattgat	gtcaacagtt	gtcacaatgc	300
ccaatgctgg	tagcaaggtt	atggtttctg	aggacagtc	agctgctcag	tctaactgcc	360
ggctcagtt	cattacacct	gtctttatca	attcactctc	aataattcag	gttatgaaag	420
gatcacagcc	aagcaccaatt	ccgtgcagcc	cactgacaac	caactctggc	ctgatgcctc	480
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<210> 372
<211> 804
<212> DNA
<213> Homo Sapiens

<400> 372

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cccactactg	ctattccacac	acagtacttc	cacggcacaa	tacattagga	gatctaaaaa	180
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ggaaaaaggg	cacattatta	aaattactaa	ctgtacagaa	attgatattaa	aaaagtcaca	420
gctcaaaatt	gctctttgta	aaagtccac	acatttccaa	gtatcaagtc	cgactcctgc	480
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ccacagttgg	ctcttcagtt	cgggagtttc	ttcggcctgg	gatttgagct	tttcaactat	660
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gggctttgct	gggggttaag	ttct				804

<210> 373
<211> 792
<212> DNA
<213> Homo Sapiens

<400> 373

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caacagcttt	gcagaagctg	gaggaagctg	agaaggcagc	agatgagagt	gagagaggca	300
tgaagtcatt	tgagagtcga	gccccaaaag	atgaagaaaa	aatggaaatt	caggagatcc	360
aactgaaga	ggcaaaagc	attgctgaag	atgccgaccg	caaatatgaa	gaggtggccc	420

gtaagctggt	catcattgag	agcgacctgg	aacgtgcaga	ggagcgggct	gagctctcag	480
aaggccaagt	ccgacagctg	gaagaacaat	taagaataat	ggatcagacc	ttgaaagcat	540
taatggctgc	agaggataag	tactcgcaga	aggaagacag	atatgaggaa	gagatcaagg	600
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agaagaaan	cttatatgca	tcaanatgct	ggatcagact	ttactggagt	taaaccacat	780
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<210> 374

<211> 745

<212> DNA

<213> Homo Sapiens

<400> 374

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tccaactgca	tgggcccacag	caatgaataa	tcttgggaatg	gcaccgctgg	gaattgcccgg	120
acaaccaatt	ttacctgact	ttgatcctgc	tcttgggaatg	atgactggaa	ttccaccaat	180
aactccaatg	atgctctggt	tgggaatagt	acctccacca	attcctccag	atagccaggt	240
agtaaaagag	atcatacaact	gtaaaagctg	cacgctcttc	cctccaaatc	caaatctccc	300
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tgaaaatggg	acagagcaaa	tcattgtgga	agttttcgag	cagtgtggag	agatcattgc	420
cattcgcaag	agcaagaaga	acttctgcca	cattcgcttt	gctgaggagt	acatggtgga	480
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cacaggcgca	ctccacgttg	atttcgcaca	ggctcgagat	gacctgtatg	agtgaggagt	600
taaacagcgt	atgctagcca	gagaggagcg	ccatcgtaga	agaatggaag	aagaaagatt	660
gcgtncacca	tnntcacccc	cagtggtcac	tatttagatc	atgaatgcag	cattggtgct	720
gaaaaataa	aaggaggatt	ccaaa				745

<210> 375

<211> 734

<212> DNA

<213> Homo Sapiens

<400> 375

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tatcttcaat	tgagactcaa	gggagggtat	gcttgcatca	ttataaatac	cacaaccacc	180
accacacaca	ataaagacca	tctctgcctc	aggacattcg	ccccaaacct	ccatcctctc	240
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tcggtttgca	attcaacaca	ctgacaacag	aagcaaaagg	accaacagac	tgtaagaagg	540
ccagagggga	aagaatatta	atataaatcc	cttctgccac	tgtgtgccgt	gccgtgtgtg	600
tgtttgtgcg	tgtgtgcccc	cacatgagca	tattttaatt	cacagaaaaa	ctgaaacatg	660
ccctccttta	aaagcagact	atttacaagt	gattctgaat	agcatgaaca	catgccagnc	720
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<210> 376

<211> 822

<212> DNA

<213> Homo Sapiens

<400> 376

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aaggattatt gcatcgagct tttagtgtct tcttattcaa caccgaaaaa aagcttctgc 240
tacagcaaaag atcagatgct aagattacct tccagggttg ttttacgaat acgtgttgta 300
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cagcacagag acggtctgaaa gctgagctag gaattccctt ggaagagggtt cctccagaag 420
aaattaatta tttaacacga attcactaca aagctcagtc tgatggtatc tggggtgaac 480
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aaatggtggg ataacttaaa tcatttgaat caagtttggg tgaccagagc aaaaataatn 720
gaatggggaa tatgtaggta aatggattac ccgaaaaaan ttatctgntt aacaaaactta 780
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<210> 377

<211> 812

<212> DNA

<213> Homo Sapiens

<400> 377

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tacaattttt aacatttaata tacacattcc ataattctcat ctatttaaca ttaacacagg 180
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ttgcacaatt ttctgaacta tgagaaaaat ttaaaggatc cntaaagcnc ctggcaaaaa 780
gccaaaggccc tttgcaaaag gcttccggaa aa 812

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<210> 378

<211> 870

<212> DNA

<213> Homo Sapiens

<400> 378

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gttcagctct caacattgct ggttgagttt ggaaccaaaa cctcttaaca actggcagat 180
aatagctaaa tcttaacaga caaagaagaa atattttctt tgggacagct gctatctaga 240
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aaaaaattag aatgcagngg taagntcctt anatttaagc cctcatatgn gncaacaggg 780
gaaaattcca tttattttta agaaaaggaaa aanggagacn gggatataaa tactcggaga 840

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aattccccga attaagaagn aacctctgca

870

<210> 379
<211> 837
<212> DNA
<213> Homo Sapiens

<400> 379

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<210> 380
<211> 793
<212> DNA
<213> Homo Sapiens

<400> 380

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<210> 381
<211> 807
<212> DNA
<213> Homo Sapiens

<400> 381

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<210> 382

<211> 800

<212> DNA

<213> Homo Sapiens

<400> 382

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cagtcgaatg	caaccagtg	ctgattggct	tctgtgcat	gtccaatctc	ctctgtgaca	180
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<210> 383

<211> 1203

<212> DNA

<213> Homo Sapiens

<400> 383

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ctgtgaataa	caggtggctt	ttcatggatg	tctctagtca	gagaaaaatg	ataaaggctt	1140
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<210> 384

<211> 2651

<212> DNA

<213> Homo Sapiens

<400> 384

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<210> 385
<211> 804
<212> DNA
<213> Homo Sapiens

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cataaagaat ggccctctgt gataagcaca aagtcagag acagcgattg gacagaattt 180
gtgaaggat cgcccccag atcatgaacg gccccctgca ccccgcccc ctggtggcgc 240
tgctggacgg ccgcgactgc actgtggaga tgcccatcct gaaggacctg gccactgtgg 300
ccttctgtga cgcgcagtcg acgcaggaaa tccacgagaa ggttctaaac gaagccgttg 360
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<210> 386
<211> 782
<212> DNA
<213> Homo Sapiens

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ga 782

<210> 387
<211> 865
<212> DNA
<213> Homo Sapiens

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aggcagctgc cactgagatc cgcgcagcca tcacaggtca catccagaa agcttaagaa 420

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ctccaggagg	acttctgtca	gccttggaa	ggatcatccc	tgagggcatt	ccagtgaact	600
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gaaggncctt	ggaactggat	cttggactta	tgcatcattg	atgcttgcaa	gtgggttaaaa	840
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<210> 388

<211> 753

<212> DNA

<213> Homo Sapiens

<400> 388

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aaattaaaa	canaattcta	aaagttganc	anctttgttt	tttttnaatn	gactnancn	240
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ttgagtttcc	aattaanctt	tgatcacat	gaggnaatng	ncagcattct	tgagncnggt	360
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gcactngcct	taaacattct	angtagagaa	cttttaccatt	agngagangt	nettgaaatt	480
cananctcac	caaattttta	ttacttttta	tngaaaactg	cagngaangc	taaagggtcta	540
cgtttacatt	aaacaaatcc	agtancagta	actcacactg	aaccacaa	tacttctgat	600
agccattatt	tttctgcttg	gggacaattt	taaagntttt	cttttggccc	aaaaaccngg	660
aatgtatccc	aaacnaaggc	tcaaaagagg	cccattcttt	tcaaacaaaa	aagggcangt	720
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<210> 389

<211> 737

<212> DNA

<213> Homo Sapiens

<400> 389

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<210> 390

<211> 775

<212> DNA

<213> Homo Sapiens

<400> 390

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<210> 391

<211> 776

<212> DNA

<213> Homo Sapiens

<400> 391

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gcagaaggct	tacaccctgc	aggatttctt	gtatcagaac	cgactgcgtc	ttctttcact	720
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<210> 392

<211> 909

<212> DNA

<213> Homo Sapiens

<400> 392

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taatggggat	tttcttatta	gccaaaaaag	angtcaccag	nccttgnaga	cttaaaggga	780
cctcaaggct	nccagggaatg	ggggatttcc	ctcntaaaaa	atttttaatt	ttgggggggt	840
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<210> 393
 <211> 769
 <212> DNA
 <213> Homo Sapiens

<400> 393

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aatagaacat	gtaactagtt	gatacaaatc	taataggatt	tgTTaaaaatc	agtcacatct	300
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aaaagTgggt	ttgttcatag	acaatctgac	aagttaccat	aaaaagtgtt	tcctgagaca	420
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atactTTTTt	TTTTTTTTtg	catcatcana	gggtTTTtact	gaacttacaa	cagacttgcc	600
cgctcagtat	gccagttcan	atgtgaaagg	cgctTTTntg	tcagcagcct	gnactggctt	660
caatcctatg	cgtgcaggng	tttaccaca	ggcaaacagg	TTTTctnccc	catttttgga	720
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<210> 394
 <211> 813
 <212> DNA
 <213> Homo Sapiens

<400> 394

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tggccatggg	tgCagaccga	ggtatccacg	tggaggtgcc	cccagcagaa	gcgaacgcgt	300
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tggtgctgct	gggcaaacag	gccatcgatg	atgactgtaa	ccagacaggg	cagatgacag	420
ctggatttct	tgactggcca	cagggcacat	tcgcctccca	ggtgacgctg	gagggggaca	480
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<210> 395
 <211> 762
 <212> DNA
 <213> Homo Sapiens

<400> 395

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ctccagcttt	tttngatca	gtgtgganga	ccggccccag	cacgggcgctg	tcaangtgga	720
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<210> 396
 <211> 822
 <212> DNA
 <213> Homo Sapiens

<400> 396						
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ccacactgat	cacagagagc	ttggagggtca	ggtccacacc	caggtcccca	ggcttgatca	180
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catcgatctc	ccgctccact	ttcaacttgt	ccccctccag	cgtcacctgg	gaggcgaaatg	360
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ggatacctcg	gtctgcaccc	atggccaggg	cgttaccat	cgtctcctgg	cactgtgcag	600
gccacagant	gacggcgatg	accttctctc	accaagcttt	ttctctctt	gagccggaca	660
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<210> 397
 <211> 812
 <212> DNA
 <213> Homo Sapiens

<400> 397						
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gctcgttgag	cctcagggtca	gctgtcacca	cagctggcag	cttcaggcgcc	agggctctcca	300
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cgaatgtgcc	ctgtggccag	tcaagaaatc	cagctgtcat	ctgcccctgtc	tggttacagt	420
catcatcgat	ggcctgtttg	cccagcagca	ccaggtccac	cttctccttc	tctgccagct	480
tggccaggac	ccgagccacc	tgccggggac	ccaagcgctc	tgtctctgct	gggggcacct	540
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gtgcaggccc	acaagctgac	gggcgatgaa	cctccttcac	cagcttcttc	tccttgagcc	660
cgcacagcct	tcttcaccgc	gatctcacag	gaaggggttc	atggagtgtc	tacaaccatc	720
cggngaccac	accgggcctt	gtcagggttt	aactcggant	ctttacgggg	taatcgnntg	780
gacctttttg	acaagctacc	aagcaccctg	ca			812

<210> 398
 <211> 751
 <212> DNA
 <213> Homo Sapiens

<400> 398

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gctcgttgag	cctcaggtca	gctgtccaca	cagctggcag	cttcaggcgc	agggtctcca	300
ggccccctc	gatctccgc	tcactttca	actgtcccc	ctccagcgct	acctgggagg	360
cgaatgtgcc	ctgtggccag	tcaagaaatc	cagctgtcat	ctgccctgtc	tggttacagt	420
catcatcgat	ggcctgtttg	cccagcagca	ccaggctccac	ctctcctctc	tctgccagct	480
tggccagcac	ccgagccacc	tcagggggac	ccaagcgtn	tgcttctgt	ggggggacact	540
ccacgtggat	acctcggtct	gcacccatgg	ccaggggcggt	acnnaatcgn	ctctggcac	600
tgtgcaggcc	cacaagntga	cggggaatga	cctccttnac	caagcttntt	ntccttgacc	660
cgaaaagctt	cttcaccgng	aacttncaga	angggttcaa	tggantgctt	tacacattcg	720
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<210> 399

<211> 800

<212> DNA

<213> Homo Sapiens

<400> 399

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aggcccccat	cgatctcccg	ctccactttc	aacttgtccc	cctccagcgt	caactggggg	360
gcgaatgtgc	cctgtggcca	gtcaagaaat	ccagctgtca	tctgccctgt	ctggttacag	420
tcacatcoga	tggcctgttt	gcccagcagc	accaggtcca	ccttctcctt	ctctgccagc	480
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tcggganacac	aaccggncct	gncaaggctt	naacttggac	ntttacggng	taatccgatg	780
aacctctttt	gacagntacc					800

<210> 400

<211> 810

<212> DNA

<213> Homo Sapiens

<400> 400

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ttccagaaga	aaggggagaa	tttcttcagc	aattgtacaa	atttatggaa	gatagaggta	180
cacctattaa	caaacgacct	gtacttggat	atcgaaattt	gaatctcttt	aagttattca	240
gacttgtaca	caaacttggg	ggatttgata	atattgaaag	tggagctgtt	tggaaacaag	300
tctaccaaga	tcttggaaat	cctgtcttaa	attcagctgc	aggatacaat	gttaaatgtg	360
cttataaaaa	atnctnatnt	ggcintngng	agtactgtac	atcagccaac	attgaatttc	420
agatggcatt	gccagagaaa	gttgtaaaca	agcaatgtaa	ggagtgtgaa	aatgtaaaag	480
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ggaatataat	accaagagaa	gaaaagccta	ttgaggatga	aattgaaaga	aaagaaaata	600
tttagccctc	tctgggaagt	aaaaagaatt	tattagaatc	tataacctaca	cattctgtac	660
agggaaaaga	agttacatta	aaaaaccnga	agacaatgaa	aatctggggc	gaccaagatg	720
atgacncaac	tagggttagat	gaatccctca	accntaaggt	agaactgagg	aagaaaaagc	780

caaatctgga tncnatgaat gggattaagc

810

<210> 401
<211> 860
<212> DNA
<213> Homo Sapiens

<400> 401

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aaaaactcta	tgagagtgtc	ctgactgaaa	accaaaaact	gaaaaaataa	cttcagggaag	120
cccagctaga	gctagcagat	ataaagtcca	agcttgagaa	gggtggcccg	cagaaacaag	180
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accctnatca	gtatccttca	gctttttaca	ttaacccagt	gnccttctga	tataggtgaa	780
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<210> 402
<211> 779
<212> DNA
<213> Homo Sapiens

<400> 402

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caagctccgc	ctcccgggtt	cacgccattc	tctgcctca	gcctcccag	tagctgggac	120
tacaggcgcc	cgccaccacg	cctggctaat	ttttgtatt	tttagtagag	attgggtttc	180
accgtgttag	ccaggatggg	ctcgaaactc	tgacctcgtg	atctgtccac	ctcggcctcc	240
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<210> 403
<211> 1443
<212> DNA
<213> Homo Sapiens

<400> 403

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<210> 404

<211> 819

<212> DNA

<213> Homo Sapiens

<400> 404

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gcncagttgg	attccttggt	naaatccctgn	cttctnttcc	aaatggatcc	gagaaccgcn	780
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<210> 405

<211> 761

<212> DNA

<213> Homo Sapiens

<400> 405

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ttaggganag	gctaggcagt	gaacacatca	tgtagtcaat	ganaaaataa	ccaactggta	180
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agggcanaag	caatggggct	gaaaaactgt	aataactgnc	actaacagca	aagtantcta	360
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tcccttccca	attatatctg	gaaattggcc	aggggaanaa	aaatgctgnc	cttccccatg	720
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<210> 406

<211> 758

<212> DNA

<213> Homo Sapiens

<400> 406

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gtcccatcca	ctgngctcta	accggctgga	tctgctcttc	ggccacagga	gagagcattt	660
ttcagcagcc	actctttggc	cncggtcttt	cttcagcag	cttcctttaa	atcattcctt	720
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<210> 407

<211> 778

<212> DNA

<213> Homo Sapiens

<400> 407

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aggtatcaag	agaaaaattag	tgctctggag	agaactgtta	aagctctaga	atttgttcaa	120
actgaatctc	aaaaagattt	ggaaataacc	aaagaaaatc	tggctcaagc	agttgaacac	180
cgcaaaaagg	cacaagcaga	attagctagc	ttcaaagtcc	tgctagatga	cactcaaagt	240
gaagcagcaa	gggtcctagc	agacaatctc	aagttgaaaa	aggaacttca	gtcaaatata	300
gaatcagtta	aaagccagat	gaaacaaaag	gatgaagatc	ttgagcgaag	actggaacag	360
gcagaagaga	agcacctgaa	agagaagaag	aatatgcaag	agaaactgga	tgctttgcgc	420
agagaaaaag	tccacttgga	agagacaatt	ggagagattc	aggttacttt	gaacaagaaa	480
gacaaggaag	ttcagcaact	tcaggaaaac	ttggacagta	ctgtgaccca	gcttgacgac	540
tttactaaga	gcatgtcttc	ccttcaggat	gatcgtgaca	gggtgataga	tgaagctaag	600
aaatgggaga	ggaagttag	tgatgcgatt	caaagcaag	aagaagaaat	tagactcaaa	660
gaagataatt	gcagtgtcta	aaggacactt	agacagatgt	ccttcntatg	gaagaattaa	720
agantaccat	ttcaggcttt	gaccatgaca	gcagatttgg	agtccaggnc	caaccaga	778

<210> 408

<211> 752

<212> DNA

<213> Homo Sapiens

<400> 408

canattatta	ggttnatnga	anccatcctn	tnngntnggn	tgaaanacnt	tcctnagntn	60
nttttacngg	accncaaaan	atcagggncc	tgcaaaatct	cancaaatnt	taggctcanc	120

aaaccaaang	ngattntnaa	attaancaaa	ancgttcagg	ctcagggcag	taaaaaaag	180
caaacctgcc	agnccntgca	gctccaacct	gnccctcgat	cncctntgtt	tttgaggcgn	240
ntttccngga	anagttggan	anaaaacctg	taaanggnaa	aactgttcca	ntggaatnga	300
ngttctgatg	ttanaggnga	nanaattcca	agttttgagg	ggagnggnc	aaagagtacc	360
aactaagtnt	ntananggcc	cgtaaaacnc	anantganca	ggacntgaat	cnttaaaaag	420
taaatggctg	ntaaaaggng	cncctgggtc	cgtagaatgac	agagtgannc	caggactcgn	480
ttccatccaa	cgccantccg	ggctccttga	caactgtngc	ttgtaanac	tattaacagg	540
gcctgntcct	gantgccaca	ggagccaatg	ntagggatcc	gggaagagtc	ccatttccat	600
ggggctttaa	cggtctgaat	ctggtccttg	gccncagaga	gagcmttttt	nagnaggccc	660
ncnttttggg	ccccgttntt	ttttccagca	ngcttccctt	taattcatte	ncctccgggg	720
ctggggggtg	caaaacntgc	tgngtgacct	tt			752

<210> 409

<211> 736

<212> DNA

<213> Homo Sapiens

<400> 409

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gctcagccaa	gatcaagtta	aagagcagtg	agctgcaggg	catcaagacg	gagctgacac	120
agatcaagtc	caatatcgat	gccctgctga	gccgcttgga	gcagatcgct	gcggagcaaa	180
aggccaatcc	agatggcaag	aagaagggtg	atggaggtgg	cgccagcgcc	ggcgccggcg	240
gtgggtgggtg	cagcggtggc	ggtaggcagtg	gtgggtggcg	tgccggtggc	aacagccggc	300
caccagcccc	ccaagagaac	acaacttctg	aggcaggcct	gccccagggg	gaagcagcga	360
cccgagacga	cggtgatgag	gaagggtccc	tgacacacag	cgaggaagag	ctggaacaca	420
gccaggacac	agacgcggat	gatggggcct	tgacagtaagc	agcctgacag	gagcaatggc	480
caccagcagg	tgaaggccat	cgctgcccag	gcctcaagcc	gggcacccaa	ccctggatgc	540
caccocccag	cggttaccag	aggaaagctg	cagcaggccg	cctcctcccc	caacgcatnc	600
cagccagtg	catgtcctct	gcaggtggag	ttactggcct	actcctcccc	atgaaccctt	660
ccttgctgc	acttgccagg	ccagagggta	gagcacangg	gtttcccccat	acttaccttc	720
ccttcccagg	acactt					736

<210> 410

<211> 766

<212> DNA

<213> Homo Sapiens

<400> 410

gggatccaat	ctctttattg	tcagggtccc	ctccctgngg	ccccccgcca	aacctataga	60
aaaaacccaa	gcctgggagt	gtcctgggga	ggggaggtag	tatggggaaa	cccctgngct	120
ctacccctctg	gcctggggcag	tgcanacagg	gagggctcat	ggggaaggag	tagggccagta	180
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cctggggcag	cgatgccctt	cacctgctgg	nggccattgc	tcctgtcagg	ctgcttactg	360
caaggcccca	tcatccgcgt	ctgtgtcctg	gctgtgttcc	agctcttccc	cgctgtgtgt	420
caggagccct	tcctcatcgc	cgctgtctcg	ggctcgtgct	tccccctggg	gcaggccctgc	480
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caccactgnc	accgncaccg	ctgcaccacc	accgncggcg	cccgncgntt	ggcgccaact	600
tcatnaccct	tcttcttgca	tctggaatgg	ncctttgctt	ncgcancgaa	ctgntccaaa	660
cgggttaanc	agggcatcna	tatttggaat	tgaactgggn	caancttccc	ncctgaangg	720
ccttgcaagc	ttnaatggtc	tttaacttga	actttggctt	gaacct		766

<210> 411

<211> 812

<212> DNA

<213> Homo Sapiens

<400> 411

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gctcagccaa	gatcaagtta	aagagcagtg	agctgcaggc	catcaagacg	gagctgacac	120
agatcaagtc	caatategat	gcctgtctga	gcgccttgga	gcagatcgct	gcggagcaaa	180
aggccaatcc	agatggcaag	aagaaggggtg	atggaggtgg	cgccagcgcc	ggcgcgcgcg	240
gtgggtgggg	cagcggtggc	ggtggcagtg	gtgggtggcg	tggcggtggc	aacagccggc	300
caccagcccc	ccaagagaac	acaacttctg	aggcaggcct	gccccagggg	gaagcagcga	360
cccagacga	cgcgatgag	gaagggtccc	tgacacacag	cgaggaagag	ctggaacaca	420
gccagggcac	agacgcgat	gatggggcct	tgacagtaagc	agcctgacag	gagcaatggc	480
caccagcagg	tgaagggcat	cgctgcccc	ggcctcaagc	cgggcaccca	accctggatg	540
ccacccccca	gcgggtacca	gaggaagcgt	ggcagcaggc	gcctcctccc	ccaacgcatac	600
ccagccagtg	ccatgtcttc	tgacagtgga	gttactggcc	tactcctccc	ccatgagccc	660
tccctgtctg	cactgcccag	gccagagggg	agagcacagg	ggtttcccca	tactaccttc	720
cctccccagg	acactcccag	gcttgggttt	ttcttatagg	tttggcgggg	ggcncacagg	780
aggggacctt	gacataaag	agattggatc	cc			812

<210> 412

<211> 857

<212> DNA

<213> Homo Sapiens

<400> 412

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tctgacatgc	ttctcgaagg	tggtcctact	acagcttctg	taagagagggc	caaagaggat	120
gaagaagatg	aggagaagat	tcagaaatgaa	gattatcatc	acgagctttc	agatggagat	180
ctggatctgg	atcttgttta	tgaggatgaa	gtaaatcagc	tcgatggcag	cagttcctct	240
gctagtgtcca	cagcaacaag	taatacagaa	gaaaatgata	ttgatgaaga	aactatgtct	300
ggagaaaatg	atgtggaata	taacaacatg	gaattagaag	agggagaact	catggaagat	360
gcagctgctg	caggaccgcg	aggtagtagc	catggttatg	tgggtccag	tagtagaata	420
tcaagaagaa	cacatttatg	ctccgctgct	accagtagtt	tactagacat	tgatccatta	480
attttaatac	atttgttggg	ccttaaggac	cggagcagta	tagaaaaatt	gtggggctta	540
cagcctcgcc	caactgcttc	acttctgcag	cccacagcat	catattctcg	aaaagataaaa	600
gaccaaagga	agcaacaggc	aatgtggcga	agtgcctctc	gatttaaaga	tgctaaaaag	660
actcaaaact	caaatggccc	gaagttcgat	gtatgaaaa	tgatgtaaag	gaatacattt	720
tcagaaataa	aaagcacagt	gctgcttctg	gagacatgcn	gacaaagcct	tttttgcgtga	780
nccagcagnt	ntggctgatg	tggactgaaa	cttttggcag	aatgcaggat	ttggatggac	840
tcctggcnaa	agttctta					857

<210> 413

<211> 790

<212> DNA

<213> Homo Sapiens

<400> 413

ctcaagtnga	ttttattanc	aaaaagngca	aactattttg	ancaaagta	aactatgagt	60
cacagcgttc	agcaagacat	canacncgga	anagnganca	atattcacta	agtaaaatnc	120
agcanatgan	atgtctntca	catgtatat	naattattca	tgctttttca	atagctctntt	180
agtcaacttt	cagngtaatt	tcacacaaat	tatagcagnt	caaacncaaa	tgacaggancn	240
caangggcaa	gttnggcaac	tggttngggc	taattatgag	tntgaaagaa	anccttatat	300
cacagtttca	cyttcatgta	anccactngc	caacatgaat	gaatntttaa	angngttgac	360
nctgaaatca	angtcaact	aangaaanta	aagaanaaaa	gggggcttta	aaatatngt	420
ngcnctacag	tcgtatagta	agaggcagaa	aaaaatgaan	gaatttttaa	taactctaca	480
cgtgtntaca	gggcaggaaa	cgtaaatgaat	ccatgttaac	ttaatttcac	ttaaaattnc	540

atattgtagaa	gtcncncaac	agaaagatcc	atgcgggtga	acagtgtgcc	tgtnccttgac	600
aagtgtagaga	agatcccttct	ccaaaaggga	gattcagttct	agggntactt	cagttntttcc	660
catagnngctt	acagggcana	atcttttttca	aaagcaattt	tctggctccct	aaatctacag	720
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taagcttttta						790

<210> 414
 <211> 1063
 <212> DNA
 <213> Homo Sapiens

<400> 414						
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nggcnnttgac	tctgnnnngc	gacntnttgc	tagtcttcag	gnctcctact	acaggctttg	120
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tnaataagaag	ctcatnntgt	cataaatggn	ccatgactta	taaatnaagt	ggactggata	300
tcttatgaca	gnagcnaatn	angettnngt	ngnagttaan	gcttccacct	nnggangata	360
agaggncnac	cttgtntnan	ctnntgcngc	tgnaagancc	agaganannt	gcctggggag	420
attcatggcc	natgatagta	tatnatctct	tacaccanat	atgccttgct	gnatcncaaa	480
tctggacata	cacgntttcc	ccatctcaga	cttctntgca	gcagctgctt	ncncacnnta	540
cccatgaacg	acanntgctt	acgntanagc	ntgaacnatin	tgatgagctt	cntcagccca	600
gacctcatca	tttcgagaag	cacatgtccc	tgcgtttcaa	cctatggatg	aggaaaagnc	660
ctngngctta	aagctcttga	aaatccctta	cacnngaanc	nttctgcata	gcttnaatca	720
ctctgagntg	cccacatngn	gtntctggaag	gcttccggnt	annatgggtc	cgggacctnc	780
aacccttccg	tttgaatnct	nacntgaccg	ganaggggnt	gcctgggttc	cttnggccnc	840
gaacttaacc	ntcacaattn	ggntgngant	tcntgggtaac	ggcctaactt	nccccaggaa	900
ttggccgctg	cttcnaccgg	aattaanggy	aatctttccc	atcccnctta	nnaccagtta	960
ggngcccnnt	tttcaatttt	cngactcccg	gagcttttaa	aaaccggggg	ccttaggttn	1020
cttggatggc	nttgggggtn	gcccccttta	gggaattaaa	ggg		1063

<210> 415
 <211> 824
 <212> DNA
 <213> Homo Sapiens

<400> 415						
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anatnaaaat	ancagttata	attacacaca	taatataggt	accttatata	atgattccaa	120
taaataatcac	aggaaaataca	ntgcattttc	aagntgnana	gacnaactact	tnctcattca	180
cagnngnttga	catanganag	cctattttaca	tancnatctg	tataaagtca	tgctctnant	240
ancaggntat	ncagnngctgn	gccancacaa	tgnttttnaga	angtgaagaa	cgggncaaac	300
cactnntggn	gctggggatc	tgganaagcc	acctgnanaa	gcttcaactct	gagcangact	360
cannaatgnc	ttnggccctt	taggtggcac	tggctgtgga	agtgggttaag	ctgctgctga	420
actcaatctg	tggactgnag	aattaggaat	ggganccagg	cggttnggat	gaccattgcc	480
cactcnanca	natnccaaag	nnctnagaan	gggaacnctc	caancctgct	tnatggngat	540
taancatnct	tcttcttttg	cttaaccocat	ggattananc	acancagcna	gtacngactt	600
ggnttttacc	ncttngttg	gaaataagga	ttcttgatng	actaaannnc	agctggtnaa	660
aacntaaactn	tcctcaatt	tagcnttatt	ntatgaancc	ggggcctant	ntcntgttca	720
aaaangngnt	tttaagtctc	ggtaatccta	ccggnaatta	ntgggggct	ntgaattcan	780
cncccttana	anatttnggn	ttaccatttn	aatccaaagg	ccac		824

<210> 416
 <211> 838
 <212> DNA

<213> Homo Sapiens

<400> 416

ctcaaaagtg	gaaaatatgt	acaatctgta	atgagctttt	tcttgaaaat	gtctatatgtg	60
tgcaacttcga	aaaagaacat	aaagctgaga	aagtcaccagc	agtagccaac	tacattatga	120
aaatacacaa	tttactagc	aaatgcctct	actgtaactg	ctatttacc	acagatactc	180
tgctcaacca	tatgttaatt	catggctgtg	cttgctcata	ttgcccgttca	actttcaatg	240
atgtggaaaa	gatggccgca	cacatgcgga	tggttcacat	tgatgaagag	atgggaccta	300
aaacagattc	tactttgagt	tttgatttga	cattgcagca	gggttagtcac	actaacatcc	360
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tcctgtaaa	aagttccact	caagctgcag	tgccctataa	aaaagatgtt	gggaaaaacc	540
tttgctctct	ttgcttttca	atcctaaaag	gacccatata	tgatgcactt	gcacatcact	600
tacgagagag	gcaccaagtt	attcagacgg	tcattccagt	tgagaaaaag	ctnacctaca	660
aatgnatcca	ttggcttggg	gngnatacca	gcaacatgga	ncggctnaac	tatcacttct	720
gnatctagnt	cactggangg	gcggtttggg	aagganccca	aatgggccag	gataagacaa	780
aaggncctct	tnngggttaa	tcagntctcc	aagtctngca	cctgtgnaac	gcacttac	838

<210> 417

<211> 880

<212> DNA

<213> Homo Sapiens

<400> 417

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acaaaattat	acatactaca	acagtgtgtc	atatattaga	tggtataaat	gaatccacca	120
tgatgggtgt	gaactaaaga	taaaactaaa	tatccaaaat	gcagcactca	ttggtttgtct	180
gcttcaaac	aacacacttt	tatacagatc	taaaagggtg	caaaattagt	agctgcaaaag	240
tcaattcttg	catgtgattt	tagcttaaaa	gatttcagaa	aacagatctg	aaataccagt	300
ttttgtttt	gacagctgta	atgtcaagga	tattcagaac	aagaaaaatc	ctataatata	360
agagagtc	gatatataat	ttacgtggct	ggcctctgtt	gcaagattgt	acaagggttat	420
gtgcaaaaac	taagtctgtc	caaaaagtcc	atactagcgc	agttttgagc	ttttgttagg	480
taaatcatag	agagcgttta	ttacacagca	agggcaaac	taaaaaaga	aatctatgat	540
gggacacag	taacaggatc	atgagcatca	cttgaatagg	tctaaaagac	tgtcaaatat	600
acatttcaac	tattcagaat	gaatacatga	aaaaaaatcg	cttttcccaa	agggtactata	660
tacncattan	actgggagct	tgatgttgg	gacctacact	accatgggga	attangttta	720
acacttntta	aaaacatttg	gccaatcatt	tcncagangg	gaaagaaatg	ttgaaaaggc	780
cgataaaaata	aaccttggg	ttttcctcgg	gggattcatg	gagtcacccg	ccttaatggg	840
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<210> 418

<211> 763

<212> DNA

<213> Homo Sapiens

<400> 418

agaagatggc	ggaagcggaa	tttaaggacc	atagtacagc	tatggatact	gaacaaaacc	60
cgggacacac	ttctgtgtca	acaacaacca	gcagtaccac	caccaccacc	atcaccactt	120
cctcctctcg	aatgcagcag	ccacagatct	ctgtctacag	tggttcagac	cgacatgctg	180
tacaggtta	tcaacaggca	ttgcatcgcc	ccccagctc	agctgctcag	taccttcagc	240
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gaccatctac	atctccacaa	ggaagtgtca	cacagcagtc	aagtatgtcc	caaacgtctg	420
tagaaattct	tatggactgg	aatcttcttc	aaggcttact	ttgttctctg	gatgcagtg	480
tgcatagaag	atagggcatt	gactcactca	gacctggctt	gcccagcagc	cattgcaaca	540

ataatgtgca	agttattaaa	gacatgagtg	aattcgtgac	agattgtcag	aaaagaaaa	600
agagttttct	acaacaaaaa	actggcttat	ggaacatata	cttctgcttg	agttgaatgt	660
gttggggctg	agtgtaaaga	aatgcaagct	gcaaatctgg	cttcatatgt	gaaccaaagc	720
tggaaatgng	tgctttaaan	gcaacttgta	aaattggatt	tcc		763

<210> 419
 <211> 753
 <212> DNA
 <213> Homo Sapiens

<400> 419						
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tggttttcta	tttgtttcat	ttgttctctc	ttcctttttt	tcacctcttc	aggattattt	120
tggattcaact	acttttttta	nagngtcgtt	ttaccactac	tattggccta	ttacctgtat	180
ctcttttttt	taatggcatt	tctctaggat	ttacaatatg	catctttagc	ttatagtatc	240
ttgaaatagt	agngtaacac	ttcacaaata	gagtaaaaaa	cttataatct	ttcatttttc	300
ccttccttct	tttgtgctat	tgatgacnca	tatttactcc	tacagatatt	ataaacaaat	360
tgatatacnc	acattatcat	ttttgcttta	catactcaat	tatcttttaa	ataaaaaaaa	420
aattgaggag	aaaatccggt	atattatcta	cacattttact	gtttccagca	cttttcattt	480
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tctttatagt	caggtctgct	ggcaaccaat	tagctcagcc	tttggtttgc	taaaaaaagt	600
cataatattat	cttgattttc	aaatgggnatt	taagctctat	ataggaattc	ttaggtgact	660
ttaattccctt	catcattggg	aagangtcat	aaagggtctg	caaaggacta	gaaatctgct	720
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<210> 420
 <211> 799
 <212> DNA
 <213> Homo Sapiens

<400> 420						
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gggaatttta	ggtattttaca	aatgtacttt	tactcataag	aagttgggaa	tcaccaaaga	240
gcagctggcc	ggaaaagtgt	tgccctcatc	tattcccctg	agtattgaaa	acaatcttaa	300
tcttaattcag	ttcaattctt	tcatttccgt	cataaaaaga	atgcttaata	gattggagtc	360
tgaacataag	actaaactgg	agcaacttca	tataatgcaa	gaacagcaga	aatctttgga	420
tataaggaaat	caaagtgaatg	ttcttgagga	gatgaaagt	acaaatattg	ggaatcagca	480
aattgacaaa	gtttttaaca	acattggagc	agaccttctg	actggcagtg	agtcgaaaaa	540
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aaaatttagca	aaagaacaag	agcaggcaca	gaagctgaaa	agccagcagc	ctcttaaac	660
ccaagtycac	acacctgttg	ctactgttaa	acagactaag	gacttgacag	acacactgat	720
ggataaatatg	tcactcttga	ccagcctttc	tggtagtacc	cctaaatctt	ctgcttcaag	780
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<210> 421
 <211> 770
 <212> DNA
 <213> Homo Sapiens

<400> 421						
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aggaaaacca	ttgtgtaaaa	cagtaggcgg	atctttcaga	gactccaat	cattgacaat	180

tcagaaggat	cttgcctgctg	catttgacaa	cggagaccag	aagggtgtct	tcgatctgtg	240
ggaggagcac	atttcaagtt	ccatccgaga	tggggactcc	tttgcccaga	agctggaatt	300
ctatctccac	atccattttg	ccatctatct	tttgaagtac	cttgtgggga	gaccggacaa	360
agaggagctg	gatgaaaaga	tttctactt	caaaacctac	ctggagacca	aaggggcagc	420
cttgagccag	accacagagt	ttcttcttt	ctatgccctt	cctttgttct	ccaaccttat	480
ggtgcacccc	tcatttaaag	aactcttcca	ggattcctgg	actccagagt	taaagttgaa	540
gttgaaaaag	ttctagctt	taatatctaa	agccagcaac	acgcctaaag	ttttaacaat	600
atataaggag	aatgggacan	agtaacaaag	aaatcttgca	gcagcttcac	cagcagctgg	660
ntgaagcttg	aaccgtaggt	caatgacata	cctcaaacgg	naccataaga	tccaggcccg	720
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<210> 422

<211> 733

<212> DNA

<213> Homo Sapiens

<400> 422

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ctgtggccgc	cgggggtgac	ggncccttgc	aggggctcat	ccccgctcca	ctgcacatta	180
gccagccctt	tcgccttgt	cttccccng	ttggctcatg	tccccaggta	ctccngggtc	240
anaagcttct	ctctcgagag	ttctccgagc	tggggctgga	tcagttcgtc	tttgtccana	300
tcggcttcca	tgatgtcatg	gncctcttca	tcattctcat	cttcatcctc	atcagattca	360
agaaacccat	ctggtagctc	ttcggaattt	agctgcttga	tgatgaattc	tatctggcgg	420
atcattttag	catttccctc	tttgatgaag	cagcgtagga	tgtcttccat	tcccattgct	480
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ggctgtatct	catgggtttc	atggccaaga	agatccgaaa	ggacttttag	caccggagcc	600
tgccaccttg	gcacacatgg	tcttccctgn	gctgcggagg	gcagaggttc	atggagcaaa	660
agccaccgag	tactccaacg	gggnagccag	acagggcagn	cagggctcct	tcanaacatc	720
aaccagccc	gaa					733

<210> 423

<211> 862

<212> DNA

<213> Homo Sapiens

<400> 423

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atcgagaaac	tcacactgtt	tcccagcctg	aaaacaaacc	agaaagtaag	ccaggcccag	180
ttggaccaga	actccctcct	ggacacatcc	caattcaagt	gatccgcaaa	gaggtggatt	240
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ctgctccagt	tccttgtcct	cctcccagcc	ctggcccttc	tgctgtcccc	tcttccccca	360
agagtgtggc	tacagaagag	agggcagccc	ccagcactgc	ccctgcagaa	gctacacctc	420
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acaaaaagta	cctgatgac	gaagagtatt	tgaccaaaaga	gctgctggcc	ctggattcag	600
tggaaccacc	gggacgaagc	cgatgtgcgt	caggccagga	gagacggtgt	caggaaggtt	660
cagaccatct	tggaaaaaact	tgaacagaaa	gccattgatg	tccangtcaa	gtccaggtct	720
atgaacttca	agccaagcaa	cnnttgaagc	agatcaagcc	cctggaggca	atcatgtgaaa	780
aggggtgccgt	ggcagcaaga	caagggcaag	aaaaatgctt	ggaaatggcn	gaagatcccc	840
acacnggaaa	ccagcaggcc	cg				862

<210> 424

<211> 859

<212> DNA

<213> Homo Sapiens

<400> 424

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gagatgaaga	aaatcatctc	attaaaatgg	caacattttc	gataaatgtt	tcataattat	180
gtgatgggta	attgactccc	catctacccc	tccagtcacg	agctacaaaa	gacagtgac	240
aaccacagct	aacagggtgt	gggggtgccc	aagtagacag	ggctgcagaa	caagcaacgg	300
ggttaaactt	ctcaacaac	aagcaacttc	tttatttgta	cagagtaaga	atatagaaga	360
aaagcatcat	tttctttttt	agccctttta	ttagtgtttt	gcctccaccc	aagttactgc	420
ataccaagca	gctaataaaa	accaactgac	ttaaagtctc	tgaatgcat	gcaactaaa	480
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gctgggttac	caggggtgtc	tggcatgctg	ctggggtttg	aagtcgctgc	tgctgnvgct	600
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tggacgcncn	attgggggtt					859

<210> 425

<211> 837

<212> DNA

<213> Homo Sapiens

<400> 425

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actaatgtag	gattatgaag	gcaagttgaa	taaagctcag	tccttttatg	aacgtgagct	120
tgatactttg	aaaaggtcac	agctttttac	agcagaaagc	ctacaggcca	gcaagaaaa	180
ggaagctgat	cttagaaaag	aatttcaggg	acaagaagca	attttacgaa	aaactatagg	240
aaaattaaag	acagagttac	agatgggtaca	ggatgaaagt	ggaagtcttc	ttgacaaaatg	300
ccaaaagctt	cagacggcac	ttgccatagc	agagaacaat	gttcaggttc	ttcaaaaaaca	360
gcttgatgat	gccaaaggag	gagaaatggc	cctattaagc	aagcacaaa	aagtggaaa	420
tgagctagca	gctgccagag	aacgtttaca	acagcaagct	tcagatcttg	tcctcaaagc	480
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agaatcagaa	aaatcgagag	tcaatgagag	attatctcaa	cttgaagagg	aaagagcttt	600
tttgcgaaag	caaaaacccaa	agtcctggatg	aagagcagaa	gcncagagatt	ctaagaactg	660
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anctgcgaag	agaatggaag	aagaggggct	taattaacga	nggccattct	aagacttttg	780
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<210> 426

<211> 724

<212> DNA

<213> Homo Sapiens

<400> 426

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aaaaataaca	gttataatta	cacacataat	atagtcacct	atagaatgat	tccaataaat	120
atcacaggaa	atacagtgca	ttttcaagtt	ggagagacaa	atactttctc	ttcacagtg	180
tttgacatag	gaaagcctat	ttacataaca	atctgtataa	agtcatgctc	ttagtaacag	240
tctatacaga	gctgtgccaa	cacaattctt	tcagaatgtg	aagtaccggg	caaaccactc	300
ctggcgctgg	ggatctggag	aagccactgy	agaagcttca	ctctgagcag	gactcaaaaa	360
tgtcttgggc	cctctagggtg	gcactggctg	tggaaaggtg	ttgctgctgt	tgaactcaat	420
atcgtggact	ggagaattag	gaatgggata	caggcggtta	ggatgtccat	tgcccactcc	480

accagattcc agagcactta nattgggaac actcacaac ctgtttgttg gtgatttatc 540
attcttcttc ttttctgttag ccaatggatt aataacacca acagtaggac ttgagttaaa 600
cacttttggtg aaagtttagt tctcgaattg actaattcca gctgataaaa cttattatcc 660
tcaattagtt tctttatgan ctgggcctct tctgtgaage atggccttta attctggaat 720
catc 724

<210> 427
<211> 981
<212> DNA
<213> Homo Sapiens

<400> 427
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tagatgatga tagntncaat gaanctgnga ncatanatta angaaacana naacantnnc 180
aaaggtccac aaatctggtc ctatgaaaag agtaaaatta ccaagactng gtgaaaganc 240
ccannaaaaa ncanagagag anagagagag agagagahac anagagagag aganaaaggg 300
aaggcacacn taancnatat cagcaataaa angggnnact ttantacana ttctgcaanc 360
attannnnna taatganagg atattatgaa cagttgtatg gcnatagtgt tgaaaactta 420
gatgccgata tgtttgaaaa cttaaatgaa acggaaaaat tccttgaaga accacaantt 480
aaatttgaca caggtagaaa atntgaatgc agttnngcct tcagtatctg tggggaaatc 540
ggttncagaa ccactcccc antaccnaaa tttataatg ctcaagttcc tgatataaaa 600
tggcaaaagta tttgcataata ncctatccct acccttttac atacttttaa taacctntga 660
gttncttntat tatacctaac ataatgtaca tttctgtggc aaatcgntnn taatattgga 720
ttttnaaaat tatnttantt ttggaatagg nngtantatt tcctggggct tttttttcc 780
ccaaatattt tntaattccc caattnggtt ggaatcttgg gaaccccatg gngggganc 840
catangattt tgggaanggn ccaacttggg gccttngtaa ctttttaag aaatngggaa 900
ttctttgntn aanaattctt ncncccaag aaaaccctt tggccccana agtnttttna 960
aatggggaaa ttncccaaa c 981

<210> 428
<211> 655
<212> DNA
<213> Homo Sapiens

<400> 428
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aaacccaatt tggatcatgat ttaatatatt ttggatcgct ctggatttgg tttgctaata 120
ttttattcat ccaagaaata ttcattagag aaattggcat gggatttttt tttcattgta 180
atgtccttgt caggatcaaa ggctttttca gcctgataaa gcatattaag aaatgcttcc 240
tcttttccca ttctctggaa aagattgtgt aatattgctg ttaactacttc ctgtaatgtt 300
tggtgaaatt cacaattgaa gacatctggg cctagcgtgt tctttgtagg aagaatatta 360
agaaagaatt ccatttcttt aaaagttacg agcacagtgt gcctccaga tctatggatc 420
ccacatgagt tcagattcca accaattgtg tattaaaaat atttgggaaa aaagccaca 480
agaaataata caactataca aaataatata atttttaaaa tacaatataa caacgattta 540
cacagaatgt nccattatgt taggnattat aagtaactca gaggntatct aaagnatgtg 600
agaggnnatg gataggctat atgccaataa ctttgcant cttatantca gggaa 655

<210> 429
<211> 788
<212> DNA
<213> Homo Sapiens

<400> 429
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aaacagtagg	cggatctttc	agagactcca	aatcattgac	aattcagaag	gatcttgcg	240
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gttccatccg	agatggggac	tcctttgcc	agaagctgga	attctatctc	cacatccatt	360
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agtttcttcc	ttcttatgcc	cttctcttgg	ttcccaaccc	tatggtgcac	ccctcattta	540
aagaactctt	ccaggattcc	tggactccag	agttaaagtt	gaagtggaa	aagtttctag	600
ctttaatatc	taaaagccagc	aacacgcena	agcttttaac	aatatataag	gagaatggac	660
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gngccttctc	taaacgggcc	aattaagaat	ccaggccgac	taccacaatc	ttantggggg	780
tcccagca						788

<210> 430

<211> 655

<212> DNA

<213> Homo Sapiens

<400> 430

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aaagcttaan	aaagtcaatt	cccgnttcc	ttanccctga	cttacnctgg	gtncctcggtt	120
ntggggccnc	cgggggngac	gggcctttgc	aggggctcat	ccccgttcca	ctggacattta	180
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aaaaagcttnt	ntcctgaaag	ttctccganc	tggggctgga	tcanttegtc	tttgnccaaa	300
ncggnntcca	tgatgncatg	ggcctnttca	tcatcttcat	tttcatcatc	atcanattga	360
anaacnccat	ntggancttt	ttcggaattt	aactgcttga	tganagaattc	tatntggngg	420
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nttgnctctc	cacgaatgga	tggaaacana	aggatgctnt	acananctcc	attccataac	540
ggntgnatnt	catggnnttc	atggccaana	anaatcccaa	aggctttgag	cccaggngctg	600
gcccttggca	caaatgttnt	tcttggcttc	cgaaggccaa	ggttcattga	ccaaa	655

<210> 431

<211> 844

<212> DNA

<213> Homo Sapiens

<400> 431

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aaattgaaga	gtactgttac	aaaagtaaca	gctgatgtca	ctagtgtgt	aatgggaaat	120
ctgtcacta	gagaatttga	tgttggtcga	cacattgcc	gtggtaggca	tgggctagct	180
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gataaaaaac	tgattgacaa	gtatcaaaaa	tttgaaaagg	atcaaatcat	tgattctctta	300
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gccaatgttc	ttggttaactg	ggaaaaatcta	ccttcccccta	tatctccaga	cattaaaggat	480
tataaaacttt	atgatgtaga	aaccaaatat	ggtttgcctt	aggtttctga	aggattgtca	540
ttcttgcata	gcagtgtgaa	aatgggtgca	tggaaatata	actcctgaaa	ataataatttt	600
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tcttncaaat	ctgaatat	tggcttctga	atcctacttt	ctgngaactt	gtgaaaccag	780
ccagtggata	tgggattcct	ttagggaactg	gtatggaatg	ccgggatttt	aataaaaagg	840
gaaa						844

<210> 432

<211> 807
 <212> DNA
 <213> Homo Sapiens

<400> 432

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aaactacttc cttatttcagt gtaaaaggagg cttataagca ttccaaaata aaaaacaaaca	180
aaaaccagac aagtcacatag tctattttcca tttcctttta tacatcctct ctatatatca	240
cacatttagc aataggagaa tagagaacta attcaaatgc aagggaatct tttttgtaga	300
ttctgttgac agatgctctt taacctaaac attttctact ctaaacataa cggactttaa	360
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attaaaaacc aattttctaa ataaacccng gctcctaaaa tggtagcaag gaaaaattct	780
tcaataccta atttaattcc ataagga	807

<210> 433
 <211> 866
 <212> DNA
 <213> Homo Sapiens

<400> 433

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acacctcttt ggcactagtt cagaatgggt atgtgtcggc cccctctgcc atactcagaa	180
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gccaggtaag gaagccccctg gacccc	866

<210> 434
 <211> 764
 <212> DNA
 <213> Homo Sapiens

<400> 434

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cacaataacc tttaaaaatg caacagattc agtctcaaaa attgcttttc atttgtagtg	120
gaaaatgaaa gtggagaaca tgggaacagca atatttgnrc tcttctcata ggtatgcagt	180
acacacacat atgactggaa tcacttcaga gtaaaaaaaa agtggggtgg gtgcagtgcc	240
tcacacctgt aatccccagca ctttgggagg ccaaggacag gagcatcact taaggccaga	300
agtttgagac cagcctgggc cacatagtga gaccctgtct ctatggggcg ggtgggggtg	360
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gnattcttaa	atacttttaa	cctgagtaac	atttataaat	atgttatagg	aaacctcaca	600
gtcacaagtc	acactagaat	ccatctgtcc	agtatctggg	ctttcccccac	accagaatcc	660
atctgtccag	tatctgggct	ttcccagtc	ttcctcttct	cataagttcc	caanggcagc	720
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<210> 435
 <211> 834
 <212> DNA
 <213> Homo Sapiens

<400> 435						
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tccaggagct	ctgtctaaac	atcattccaa	cctttgcaaa	tctttatagac	tacccatcca	180
tgaaaaacgc	tttgatacca	agaattaaaa	atgcttgtct	acaaacatct	tcctttgcgg	240
ttcgtgtaaa	ttcattagtg	tgcttaggaa	agattttgga	atacttggat	aagtgtgttg	300
tacttgatga	tatcctaccc	ttcttacaac	aaattccatc	caaggaaacct	gcggtcctca	360
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aattggcaca	gttttttaaca	acattggagc	agaccttntg	actggcagtg	agtcggaaaa	720
taaagangac	gggttacaga	ataaccttaa	aagagcatcc	ttaccacttg	gaggaaaaaac	780
caaaatttgc	caaaaagaacc	aggaccggcn	ccgaagctgg	aaaagccgca	ggct	834

<210> 436
 <211> 812
 <212> DNA
 <213> Homo Sapiens

<400> 436						
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aaatatagtt	taattctttac	aaatcttctt	ttgaaaaatgc	aattcatata	tgtgcgaacc	120
tcagaagttt	gaatttgaaa	tgaaatatga	aggtagtagt	cagggaagtc	acatcagagt	180
gccttgtcaa	atatccaaac	aaatcagcac	atacctcttc	cttgatacag	gaggaaaaaaa	240
gtgattctaa	atatatccaa	gtgaatgcag	aaaaatacat	tactatttga	ggcagaccat	300
gctaaaaat	aatttacaat	gattagtgtg	cacttaagat	ggtaataaac	gcattttaa	360
caatgaaatg	aaggttaaagt	tgaattttgt	agtattttgt	cagtcctctgt	actaaacaat	420
agttcatctg	aaaagttttg	aaaaagcaaa	taacctgata	cttctcttta	tgttatcat	480
ttctcactg	tcatcttaaa	tgcaaacaaa	tcaatacagc	atcaagattt	tttacaattt	540
aaaatgaaga	ctaatactc	atagactgng	taccatatag	tacttaatat	atgagcttgc	600
aatgaccatc	acctcaattt	tttaataaac	accaagatcc	acaagccaaa	ataaacattt	660
gattaaaaag	ttatgggtatt	caagataact	cagtttccct	tttctcttgg	agattgggna	720
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tcaangcttt	taaaaaaact	tcnactgggt	ta			812

<210> 437
 <211> 842
 <212> DNA
 <213> Homo Sapiens

<400> 437

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agagcaaac	cccactctgc	cctccactgg	tgatgtcaca	cccacccatg	aagagcctgc	120
ctctagggtt	gttgaatgtt	gggtcacgaa	gatctcaacc	tgcccaaaaga	agagaaccca	180
gaaagatcat	cacagtttct	gtaaaagaag	atgtacacct	gaaaaaggca	gaaaatgcct	240
ggaagccaag	ccaaaaacga	gacagccaag	ccgatgatcc	cgaaaaacatt	aaaacccagg	300
agctttttag	aaaagttcga	agtatcttaa	ataaattgac	accacagatg	ttcaatcaac	360
tgatgaagca	agtgtcaggga	cttactgttg	acacagagga	gcggctgaaa	ggagttattg	420
acctggctct	tgagaaggct	attgatgaac	ccagttttct	tgtggcttac	gcacaatcat	480
gtcgatgtct	agtaacgctg	aaagtaccca	tggcagacaa	gcctggtaac	acagtgaatt	540
tcgggaagct	gctactgaac	cgttgccaga	aggagtttga	aaaagataaa	gcagatgatg	600
atgtctttga	gaagaagcag	aaagaacttg	aggctgccag	tgctccagag	gagaggacaa	660
ggcttcacga	tgaactggaa	gaagccaaag	acaaaagccc	ggcggagatc	cattggcaac	720
atcaagttaa	ttggagaact	cttttaaaact	caaaatgctt	gacttgaagc	catcattgca	780
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cg						842

<210> 438

<211> 678

<212> DNA

<213> Homo Sapiens

<400> 438

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nggctctaaa	gatntcaaga	gnattaana	nacttttntc	agggagacac	tntttttttt	180
ttaaacantt	nttggngttc	tgtggncac	annatttctc	tntgtntcaa	ngtngatgat	240
gtnttgatna	cnatngngat	nttttaaan	ttntgaaaca	agctgagagg	cnngcnaaaa	300
gatntgancg	cnnaaaaaaa	aaaactcttn	ttacctgtnt	ccaccccaac	tttttcaaat	360
ctggntctaaa	tgtctntacct	taaaacanac	atgaggggca	tcttgaaggg	gagggaaant	420
tatttctctg	cntttctatn	atacangtng	tttacaanaa	ctngaaatta	naaaattaca	480
ctggcnattg	cngaccttaa	aataaaattaa	aagtnctcaa	ctnttttttt	tttngntaaa	540
cnttttttta	agnatgannc	cntggttaaa	aagaaaagnt	ttaaaccgaa	aatattttct	600
ataaaataa	cctggatttt	ggnttttagg	ccccgcctc	aaggnttgna	ggttactttt	660
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<210> 439

<211> 826

<212> DNA

<213> Homo Sapiens

<400> 439

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gaaaaattat	cagccacgga	gagcattgtg	gaaatagtaa	aacaggaagt	attgccattg	180
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gtctccatca	ccccctccac	agttctctcc	tttctctcaa	ctctctcaac	ttctccagct	300
ttctctctc	acactccagt	catgtttctc	gctgctgcca	ctactgttag	ttctccgagt	360
gctgccaatca	cagtcacagag	agtcctagag	gaggacgaga	gcataagaac	ttgccttagt	420
gaagatgcaa	aagagattca	gaacaaaata	gaggtagaag	cagatgggca	aacagaagag	480
attttggatt	ctcaaaaact	aaattcaaga	aggagccctg	ttccagctca	aatagctata	540
actgtaccaa	agacattggaa	gaacacaaaa	gatcggaacc	gaaccactga	agagatgtta	600
gaggcagaat	tggaacttaa	agctgaagag	gagctttcca	ttggcaaaagt	acttgaatct	660
gaccaggata	aaatgagcca	gggttttcat	cctgaaagag	acccctntgg	cctaaaaaaa	720
gtgaaagact	gtggaagaaa	atggagaaga	actgagccag	acgttaatgg	ggcctgaaag	780
ggttctgang	gtgaaggaat	agatgcttaa	ttcangcttc	ccccaga		826

<210> 440
 <211> 689
 <212> DNA
 <213> Homo Sapiens

<400> 440
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 ccacagcatt tctctctgtt tcaatgttat gtatgttttg attactattg tgatttttta 180
 aattttctga agcaagctga gaggcaggca gaaagatttg atgcccataa aaaaaaatc 240
 tttcttacct tgttcacccc aaacttttct aaatctggac taaatgctat accttaaaac 300
 aaacatgagg tgcattctga aggggaggga aatttatctc tctgcttttc tattatacaa 360
 gttgtttaca gaaactgcaa attaaaaaat tacactggca tttgcagtcc taaaaataaa 420
 ttaaaagtct tcaacttttt ttttttgcta aacatttttt taagtatgag tctctgttta 480
 aaaaagaaag attaaaaacg aaaatatatt ctataaataa tacatgtatt ttggttttag 540
 tgctccgcgc ctaagggttg aagtttactt ttatccagta cctttttcct ccatgatcac 600
 ctttttttct ctttcccttn ttccactcgg gcacacgtgg ggggtttctg cnanaattgg 660
 ccttgctgca ctgngaattg gcnaaaacc 689

<210> 441
 <211> 883
 <212> DNA
 <213> Homo Sapiens

<400> 441
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 cagccaagag agagaaaaaa actataagaa ttcgggatcc aaaccaggga ggtaaagaca 180
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 ccacgtccac acctactcct cctcagcagc tgcccagcca ggtcccgcag cacagccctg 300
 tgggtttatg gactgtggag agcgtcctc ttgctgccag caccctgtc actgcagcta 360
 gcgaccagaa gcaagctcaa atagctataa ctgtaccaaa gacatggaag aaaccaaag 420
 atcggaccgc aaccactgaa gagatgttag aggcagaatt ggagcttaaa gctgaagagg 480
 agctttccat tgacaaaagta ctggaatctg aacaagataa aatgagccag gggtttcac 540
 ctgaaagaga cccctctgac ctaaaaaaag tgaaagctgt ggaagaaaat ggagaagaag 600
 ctgagccagt acgtaatggt gcttgagagt gtttcttgag ggtgaaggaa tagatgctaa 660
 ttcaggcttc acagatagtt ctgggtgatg ggttacatt ccattttaa cagaatnctg 720
 gaagcctact ggtacttgaa ggttaagaaca gtatgaccag ggagtttctg gtggactttc 780
 cagttcatgc ctggctgnat tccaaaancc naagggcctg gcttctatta anggatgngg 840
 ttnttgacag gatcaaccaa ncccaaatgg ccaatgggga act 883

<210> 442
 <211> 777
 <212> DNA
 <213> Homo Sapiens

<400> 442
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 tcgtgcacac gtgggggttt ctgcgagaat tggccttgct gcaactgtat tggcgaagac 240
 gtgaaacttt ttaaaaaaat acttaattg ttctttttgt ttacttttgt gtatttgaag 300
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 gatttcagag ccacgccctt cccattctgc tctgcagggt ccttgctgct ctcccatttg 420
 tagaaggcat cctcggagat caccctctcg tcatatagac aatcaaaaaa catccgcagc 480

aaattggcag	gttgatcaag	ttttactatc	gatgcttgta	gtgcataaag	tgcttgcagt	540
tccttctctg	natctgagtc	taggtacttg	agtaagatcg	gcactctctg	cttgaaacag	600
cagtgctccac	ttcttgaang	tagaagaagt	cggtctattaa	tagctggttt	acaaacagca	660
gtcattttaa	gctctaaaga	atggtagggt	aactctctg	ggatttcggc	taagaataag	720
cccttttanc	aggccaaaga	acctgggtcan	tcaattcgct	tttggccctc	caataaaa	777

<210> 443
 <211> 875
 <212> DNA
 <213> Homo Sapiens

<400> 443						
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agaggagagg	acaaggcttc	atgatgaact	ggaagaagcc	aaggacaaag	cccggcgagg	180
atccattggc	aacatcaagt	ttattggaga	actctttaa	ctcaaatgc	tgactgaagc	240
catcatgcat	gactgtgtgg	tgaagctgct	aaagaacct	gatgaagaat	ccctggagtg	300
ccgtgtgtgc	ctgttcacca	ccattggcaa	agacttggac	tttgaaaaag	caaagccacg	360
tatggaccag	tactttaatc	agatggagaa	aattgtgaaa	gaaagaaaaa	cctcatctag	420
gattcgggtc	atgcttcaag	atgttataga	cctaaggctg	tgcaattggg	tatctcgaag	480
agcagatcaa	gggctctaaa	ctatcgaaac	gattcacaaa	gaggctaaaa	tagaagaaca	540
agaagagcaa	aggaaggctc	agcaactcat	gaccaaaag	aagagaagac	caggtgtcca	600
gagagtggac	gaagtggttg	ggaacactgt	acaaggggac	caagaacagt	cggtgtactg	660
acccctcaaa	antctctaaa	atcactaagc	ctacaattga	tgaaaaaant	cactggacct	720
aaagccagct	agggcagctg	ggaaaaggca	gcagtgtgtg	accaangcaa	gtgaaactga	780
gcctacggcg	aagtgtctnc	agttaaacag	atctntgncc	tgaaccttca	gaaccttang	840
gtcccgccat	cacgctgtga	aagttggatt	cccga			875

<210> 444
 <211> 756
 <212> DNA
 <213> Homo Sapiens

<400> 444						
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tagtactgag	tcaatttctt	tttggttttt	taaatatttg	gtctatgnat	ttacnagcct	120
taaagttgct	ctaaagattt	caagagtatt	aagagtactt	ttctcagggg	agcacttttt	180
ttttttttaa	caattcttgg	agttctgngg	nccacagcat	ttccttctgn	ttcaatgnnta	240
tgatgtgttt	gattactatt	gggatttttt	aaattttctg	aagcaagctg	anaggcaggc	300
ngaaagattt	gatgcctaaa	aaaaaaaaaa	aatcttntt	accttgggtc	ccccaaactt	360
tnctcaaatc	ggactaaaat	ctatacctta	aaacaaacnt	gaggggcatn	ttgaaggggga	420
gggaaattta	tttctctgnt	tttctattat	acnagttgnt	taccgaaact	gnaaattaaa	480
aaattaccct	ggccttttgc	ggccttaaaa	taaatataaa	gntctcaact	tttttttttt	540
gccaaacatt	tttttaagta	tgagnccttg	nttaaaaaaga	aaagattnaa	ncgaaaaata	600
ttttctataa	ataatacctg	nattttggtt	ttaaggctcc	cgccctaang	nttgaagggt	660
acttttatcc	nagnnccctt	tttccctcca	tgaanacccc	tttttttcnc	ctttccctct	720
ttcccacttn	gggccccccc	tnnggggggtt	tttgcg			756

<210> 445
 <211> 783
 <212> DNA
 <213> Homo Sapiens

<400> 445						
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tttatatcag	ataatgaaag	ttttaaccct	tcattgtggg	aggaacagag	gaaacagcgg	120
gtccaagt	catctgaag	tgatgaagac	aaagatgaaa	gggaggcacc	tcccagggag	180
ggaaatttaa	aaagatatcc	aacaccatac	ccagatgagc	ttaagaatat	ggtcaaaact	240
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agtactacta	cagtataaag	caaagtgtat	gaaagagaaa	aatatatgat	aggaacctct	420
gtacgaagac	tcagtgaaac	tgaagctgag	attagtccct	ggagtttcca	agtgcattga	480
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gaaacctcta	ttaaccagcc	aaaagtctga	gcacttagta	ataacaaaaa	agatgatata	660
aaggaaacag	attctttatc	agatgaagtt	acacacaata	gcaatcagaa	taccagcaat	720
tggctctctc	catctcggat	gtctgattca	gttctcttaa	tactgatagt	agtcaagaca	780
cct						783

<210> 446

<211> 866

<212> DNA

<213> Homo Sapiens

<400> 446

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tatccataaa	aatcaattcc	tatgtaaaata	gtactgaaaa	tcaactaaaa	tgagttaaaa	120
tttacaaga	gttggttaag	ggtttcaatc	aaaattatta	aaactataca	gtacataaac	180
caatttgaaa	catcttgaaa	gaagtgcatt	atgtgagttc	acatattttt	aaaagtgcgt	240
cctacttact	ctgactagca	agaatggaaa	gtgagtccaa	ctcacttttg	caaaaataat	300
gttggttggt	gttttaagct	agtcttataa	aagtcttaat	taaaatcaag	gttgataaac	360
aaagcataac	agattataac	ttcccaaat	gcattttctta	gtaaaataaaa	atgaaagtga	420
atacccaaat	attgctctaa	tgaaggttcc	cagactagcc	tcaactaaaac	agttatttgt	480
ctctatggc	acttttttct	ggtccaaata	accatgcatt	aatccttacc	attacatggt	540
actcaaat	tatttgatta	catagaacaa	aaacaaataa	aattaatggt	ctggataaac	600
aaaatttaata	aacctctatc	atcaaatatt	tgttacagta	actaggaaca	aagaaaggca	660
gtttggtggg	taaaacacta	ttacactgat	ccccatagga	aacctcttta	aagactctgg	720
aagtgttgag	ttcacattta	atggtacctg	tagaaacagn	cctttatttg	gacaccttta	780
ccactggca	ngccctaang	gacctatccc	tttgcctat	aacttttcc	aagcaattct	840
ctaactctgg	gccagtttnc	aaaagc				866

<210> 447

<211> 789

<212> DNA

<213> Homo Sapiens

<400> 447

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aatcggtgtc	acttcccac	ttttctctgt	ttgtcagcaa	ttgggatgaa	gccacaaaaa	180
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aaaaacaaaa	ggagagggaag	aagaagaggc	agcaggctag	gaagactgca	tcagttctta	300
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ctaattgaaaa	agttagagatt	caaaaacatg	ccacaggaaa	gaagtctcca	gcaaaagatc	540
ctaattccca	cacacctcgt	gggaagaaaa	gaaaggcttt	gccagcatct	gagaccccaa	600
aagctgcaga	gtctgagacc	ccagggaaaa	gccagagaaa	gaagccaaaa	atcaaaagag	660
agcagtgaag	gaaaaaagtc	cttcgctggg	gaaaaaagat	gccgaagaca	gacttcaaaa	720
aagccagang	ccagggttttc	ccactcttag	taaaatctgtg	agaaagcttt	ccacaccccc	780

aaaaaatgg

789

<210> 448
 <211> 820
 <212> DNA
 <213> Homo Sapiens

<400> 448

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cctgcctcag	cctccctagt	agctgggatt	acaggtgtcc	accaccatgc	ccaattaatt	180
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gacctctgtga	tccgcctgcc	tccgcctccc	aaagtgtctgg	gattacaggc	gtgagccacc	300
gccccctggac	tacttatgga	ggttttataa	aatcttttaa	gtccaggcct	gacgtttaga	360
gaaggttaca	aaggcggcca	ggatctgagt	atttccaaaa	agctctggag	gcagcattga	420
ggtttccctc	cagttgaatc	actgacttta	ggtcgactgg	ggtactttgg	gttttttggg	480
ccattttttg	ggggtgtggg	aagcttttct	cacagattta	ctaggagtgg	tgaaaaactt	540
ggcctctggc	ttttttggag	tctgtctcgc	atcttttttc	cccagcgaa	gacttttttc	600
cttcactgcc	tctctcttga	tttttggcct	cttctcttgg	gcttttccct	ggggtctcag	660
actctgcagc	tttttggggg	tcttcaanat	gctggcaaaa	gctttttctt	ttcttcccac	720
gagggggngc	ctggggatta	ggactctttt	gctggggana	cttcttttct	tgngggngang	780
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<210> 449
 <211> 936
 <212> DNA
 <213> Homo Sapiens

<400> 449

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agggtgaaaga	gttgatgtgc	cagattgaag	catcagctaa	ggaacatgaa	gcagagataa	180
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atgaaaaagt	caaacactta	gaagatacct	taaaagaact	tgaatctcaa	cacagtatct	420
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gaaaaattaa	cattaatggg	tgaattcaa	ggtcttaang	gacagtgtga	aaacctaccg	780
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<210> 450
 <211> 806
 <212> DNA
 <213> Homo Sapiens

<400> 450

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agaatagttg	ggcattttaa	taaaatttgc	taaatgaatg	aaaaatccaa	aataaatcat	180

gaagccattt	ataaatcaca	ccaatcttgc	ttgggttaaa	caatagaaa	taaacatttt	240
gaaagagaag	gcaaacaggt	gttagagggg	caagaatgtg	agctcgagga	aaagacagct	300
acgaactgtg	tttttaacaa	ctcattattt	ggctactata	tttcccaatc	tattcttaaca	360
ctaacaagaa	tctgtctaat	taattgtgac	aacatctgca	aaaccatagt	tacctatttt	420
ttcttccaac	tcttttactg	aagacagagg	atcatttttt	acagaagggtg	attttgtctaa	480
ggaatccttt	aatagtatca	actctgtctc	cctatctctg	aattcttttt	gntctagtag	540
tggcttttag	ttttcatgtt	cctttataaa	acattttttc	tttccattat	ggatttcaact	600
tttgctacat	gtttgagata	cttctttcaa	cttgaattaa	aagaatctga	ttttcaagcc	660
ttggtttttc	attagcattc	ttcattttta	gaagatccag	actgcanggn	ctctttttct	720
ggacttgaat	tcttctaact	cttttctttt	aagaagaacc	tttttcttgg	ntcatagggc	780
tcttcaatta	aggacttaag	gtcttt				806

<210> 451
 <211> 909
 <212> DNA
 <213> Homo Sapiens

<400> 451						
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tcattttata	cacactagtc	agtggtctac	ttccctttga	tgggcaaaac	ctaaaggaac	120
tgagagagag	agtatttaaga	gggaaataca	gaattccctt	ctacatgtct	acagactgtg	180
aaaaccttct	caaacgtttc	ctgggtgctaa	atccaattaa	acgcggcact	ctagagcaaa	240
tcatgaagga	caggtggatc	aatgcagggc	atgaagaaga	tgaactcaaa	ccatttgttg	300
aaccagagct	agacatctca	gaccaaaaaa	gaatagatat	tatgggtggg	atgggatatt	360
cacaagaaga	aattcaagaa	tctcttagta	agatgaaata	cgatgaaatc	acagctacat	420
atttgttatt	ggggagaaaa	tcttcagagc	tggatgctag	tgattccagt	tctagcagca	480
atctttcact	tgctaaggtt	aggcccgagc	agtgatctca	acaacagtac	tggccagtct	540
cctcacaca	aagtgcagag	aagtgtttct	tcaagccaaa	agcaaaagac	ctacagtgc	600
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ggtaatnctt	aataaggcgg	atattcctgg	aacgccagga	aaagctccac	tggnccttag	840
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agaacttcc						909

<210> 452
 <211> 672
 <212> DNA
 <213> Homo Sapiens

<400> 452						
actgaaaaa	agtgaanttt	naattatntt	gtnaatnnac	tnaaaaaacc	ncacncaagc	60
aatgttcaca	antntaaatt	naaacctttt	gcactaaaaa	ancacaaaaa	ancaaaacaca	120
aaaccacag	cntgaactgn	aaacctgtct	taactatgaa	ctggnccttaa	ggttaattct	180
tannngccat	tcantatttc	nntccttggg	aactgtaagt	ttntagcacc	ggatgatctc	240
ccgnanaggt	nctagaannng	acngnctgcc	agngnangga	gatncttccn	tatacacccac	300
ttnanancna	tacggtcnan	tttcanacn	accagacgg	nangcacatg	mgatggggc	360
cncacnccna	ctntnanggn	aacggaagta	gggcaggngg	cgcattnggt	gcacatcttt	420
aatgtattgc	attcgnaaaa	aaaaggccag	nttctnatcc	caggcgtgct	ctngacctna	480
gactttaatn	ncatgattta	naanatncag	nacgntattg	cctaaatntt	attctatata	540
tttccatcag	tggtnagga	aaacacttta	aatgcaactn	antccacat	cananncact	600
mggttacag	ntttagctca	ttgggcaatt	tttngaagca	atttttttng	aaangctntt	660
ggaatgnccc	cc					672

<210> 453

<211> 834
 <212> DNA
 <213> Homo Sapiens

<400> 453
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 ggaagaagaa gcttcgttgt gagaggagg agcttccac catctacaag tgtccttacc 120
 agggctgcac ggccgtgtac cgaggcgctg acggcatgaa gaagcacatc aaggagcacc 180
 acgaggagggt cggggagcgg ccctgccccc accctggctg caacaagggtt ttcatgatcg 240
 accgctacct gcagcgccac gtgaagotca tccacacaga ggtcggaac tatatctgtg 300
 acgaatgtgg acaaaccttc aagcagcgga agcaccttct cgtccaccaa atgcgacatt 360
 cgggagccaa gcccttgcag tgtgaggtct gtgggttcca gtgcaggcag cgggcataccc 420
 tcaagtacca catgaccaaa cacaaggctg agactgagct ggactttgcc tgtgaccagt 480
 gtggccggcg gtttgagaag gcccaaaccc tcaatgtaca catgtccatg gtgcaccgcg 540
 tgacacagac ccagggacaag gccctgccct ggaggcggaa ccaccacctg ggcacccgag 600
 cccctctgtg accacagacg gccaggcggt gaagcccgaa cccacctgag gacggcagtg 660
 aggatgagca cctctagcag cctggacttc gcagtggctg tgtcaagcct cacccttcgt 720
 gtgacccgcg atgggagggt cgggagggtg cttgccncc ttggtgctgg angcgggctt 780
 ggtgtccgcg tcaagtagcc ttctttgntc ttgggaccag tgggttattt tccc 834

<210> 454
 <211> 703
 <212> DNA
 <213> Homo Sapiens

<400> 454
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 tacaaatctc ctcgactgct ttagtgggga aaggaatcaa ttatttatga actgtccgcg 120
 cccaagtca ctagcggtttg cgggaaaata aaccactggt cccagagcag aggaaggcta 180
 cttgagccgg acaccaagcc cgctccagc accaagggcg gccagcacc tccgacctc 240
 ccattgcgggt gcacacgaag ggtgaggctg acacagccac tgcggagtc aggtctgtan 300
 aggtgtctcat cctcactgcc gtcttcaggt ggggtccggc ttccaccgct ggcgctctgt 360
 ggtcacagag gggctcggtg gccaggtgg tggttccgcc tccaggggca gggccttgct 420
 ctgggtctgt gtcagcgggt gcaccatgga catgtgtaca ttgaggttgt gggccttctc 480
 aaaccgcgg ccacactggt cacaggcaaa gtccagctca gtctcagcct tgngttttgt 540
 catgtggtac ttgagggtat ccgctgcct gcactggaa cccagagcct cacactgcaa 600
 aggcttggct nccgaatgtc gcatttgggg gacgaaaaag gtgcttccgc tgtgtgaaa 660
 gnttgccca attnggtaca agatatagtt ccccaacttt ggg 703

<210> 455
 <211> 825
 <212> DNA
 <213> Homo Sapiens

<400> 455
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 ttgacagtga agacaagaat ggtggtgagg acaccgacaa tgaagaagga gaagaagaga 120
 atcctttgga gataaaaagaa aaaccagaag aagcaggtca tgaagctgag gaaagaggag 180
 agaccagagc cgaccagaac gaaagtcaga gtccacagga gctcgaggaa ggccccagt 240
 aagatgacaa ggacagaagg gaagaggaaa tggacacagg agctgatgac caagatggag 300
 atgctgtcta gcatcctgaa gaacactctg aggagcagca gcagtctgtg gaggaaaaag 360
 acaagggaagc cgatgaagaa ggtggagaga atggccctgc tgaccaaggt ttccagcccc 420
 aggaaggaag agaacgggag gactctgata cagaggagca ggtgccagag gctttggaga 480
 ggaaggagca tgccctctgt gggcagactg gtgtggagaa catgcagaa acacaggcca 540
 tggagctggc tggggccgcga cctgagaagg agcaggggaa agaggaacac ggaagtggag 600

ctgcagatgc	aaaccaggca	gaaggccatg	aatcgaattt	cattgcccag	ttggccttcc	660
agaacacacc	aggaaaaaca	cacagagttt	taagaggaaa	cctgggcagg	cttgacaatt	720
gaacgttnca	tgggtgatca	caattgaacg	tgtgcacaag	aagctganga	cttgtggaat	780
cgggacaggc	attgcccaacc	aggggccagc	ttaacaagcc	ccagg		825

<210> 456
 <211> 740
 <212> DNA
 <213> Homo Sapiens

<400> 456						
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agaataaaaa	atgataatac	ttcaggtaca	tgctttggga	cacttggtta	aacaagggaat	120
ctgtgtcttt	gatgaccacc	tcaaaagggt	cgcagacttc	acagtgtaac	ttggaacacag	180
acaaggagat	agatgattac	atcatgacat	actgcctaca	aaagaacatt	ctgcagacaac	240
attaagttaga	acagagcaca	cagtttcaag	tattcagcac	tgctttctcg	ccaagtataaa	300
actgctctaa	gatcagtttc	tttcgactgg	aaaaaataga	tggagctgct	gagtctctgga	360
cacagcgltt	ctttcccaga	atgagactgg	ctcagtcagg	cttgaaagca	gtgtgaggaa	420
tcacttttcc	ccttgactgt	taagaaaaaa	aaaaatgaac	taacaaaata	aattactaca	480
acaacaggga	ccatggcact	gaatgaaata	aaggggcaat	caccttccca	tcattgcata	540
gtctccgcaa	gcagcaagtg	tgaaagagga	tactgaaaag	ccacttcatt	tttacacagc	600
ccaagggatc	gttttttatng	atgacctggg	cacctataat	gnccagttgc	tttatgagaa	660
ccacacacac	accacattct	tcctaccctn	taagagaagg	taggttcctt	tcacaataag	720
gaaaaacccc	ccttatactt					740

<210> 457
 <211> 726
 <212> DNA
 <213> Homo Sapiens

<400> 457						
aaaatgtagt	caactttatt	ctccttaaac	cacaaaaatag	agtctttggt	tgtacaaaaca	60
tcactagtta	cagtctcgcc	gaggtctcgg	ctggggtggg	gcagttagtt	agtcacaggc	120
cagaactcct	gtggggtctc	tttaaaatgc	taacacccag	gttaaaagac	ttggggcgaag	180
ggtggtgctg	gagctggcag	ggccccacc	ccaagtctgg	gggaggtgcc	tgctcctcta	240
ggaggggcaca	gggcccaggc	cacggcgccc	aggccttacg	ggggcgccgc	tgctgcacag	300
tgccacatct	tcaggggccca	cagcgccggg	tgagggcctg	cccagaagca	ccagagccac	360
ttctccatcc	tcctcctcgg	ggccagggct	gggagatggt	tcaggggacc	tcaactcctc	420
agcaaaagtc	ggtgacaggc	gtcccgggga	ggtgctggtc	tgggggcgga	ggtcttccac	480
aggggtgggc	gacggggtgg	gcccagggga	aggggcctcg	gccagtcgct	ccaggggccc	540
ccgcgtgccc	cgccctttct	gggacctgct	gaggaccatc	tgtgctcgga	gagcgtcctg	600
ttccaatgac	ttcatctcgg	ctggccttca	caagcgcaag	cttctcggn	ttcaggggccc	660
cggacttcgg	caagggggaca	nggcacgctt	cgggtgcggg	tggcttcggg	actttggacg	720
ccgcaa						726

<210> 458
 <211> 870
 <212> DNA
 <213> Homo Sapiens

<400> 458						
cgcggcctct	ccgctgggtg	taccacctgt	cgcggcgcca	gacctctggt	gaaagaaaaag	60
atgttgtccc	gggttaagagt	agtttccacc	acttgtaact	tggcatgtcg	acatttgcac	120
ataaaagaaa	aaggcaagcc	acttatgctg	aaccaagaa	caaacaaggg	aatggcattt	180
actttacaag	aacgacaaat	gcttgggtct	caaggacttc	tacctcccaa	aatagagaca	240

caagatattc	aagccttacg	atttcataga	aacttgaaga	aaatgactag	ccctttggaa	300
aaatatactc	acataatggg	aatacaagaa	agaaatgaga	aattgtttta	tagaataactg	360
caagatgaca	ttgagagttt	aatgccaat	gtatatacac	cgacgggttg	tcttgctcgc	420
tcccagtag	gacacatctt	tagaagacct	aagggtatt	ttatttcgat	ctcagacaga	480
ggatcatgta	gatcaattgt	ggataactgg	ccagaaaaac	atgttaaggg	tggtgtagtg	540
actgatggag	agagaattct	gggtcttgga	gatctgggtg	tctatggaat	gggaattcca	600
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gtgtattgat	gtgggaactg	ataatatcgc	actcttaaaa	ganccatttt	acatgggctt	720
gaccagaaac	gagatcgac	ccacagtga	tgantctgat	gatgagtta	tgaagcctt	780
actgacagat	atggccggaa	cacctttatt	cagttcgagg	acnttggaaa	tcaaanagcc	840
ttcaggtctt	tgagaaagtc	cggggaaaaa				870

<210> 459

<211> 761

<212> DNA

<213> Homo Sapiens

<400> 459

aaatgtaaga	tatttattaa	ataaaaaggt	tacactatga	tttttataca	ctgttgaaaa	60
caatgacttt	tatttactta	aagccagcag	tagttcccat	tactctcata	atgttatagt	120
taaggcttga	tttagttcca	gaaaaataat	agggtaaat	tttaatat	ccctagctct	180
gtctgctata	gggaatttca	gagtatgaag	gtaagatgaa	gcagatatat	agaacatttt	240
ttagataatg	acaatttttc	cttaaaaatt	gggtgaaaat	tagtttcttc	tcaaaattct	300
gtactcttat	ccataaagtg	aaattcttat	tttagtagct	ctgtaagaac	taggcccagat	360
aagagtatta	cccataatag	taaatagcaa	atactttggc	aagctgtaat	tagagtacaa	420
gtgaagacat	tcacaaacac	actttttaca	tctcctggat	gtggtacggg	ctgtatgtta	480
gaattaaagc	atcacaaact	tctgattgta	gggtgctggg	gggcaatgca	atcaatcaac	540
acgtctaccc	caacagatgt	ggagacccat	ggaaaaata	catcaaccac	agtggtcagg	600
gagacaacaa	ccccagaaaa	caccttaaaa	actgaagaca	ttatctcttc	ttggctgaaa	660
aaaggggttc	ctggagacac	angaaaaggt	ttatcaaggg	aggcttctat	tcngtaatca	720
caggaaggct	tgatgcanat	tctgggcat	tcatacccca	t		761

<210> 460

<211> 876

<212> DNA

<213> Homo Sapiens

<400> 460

ctgagctcct	gaagcgccct	aaggagtaca	ctgtgcgctt	cacttttcca	gacccccac	60
cactcagccc	tccagtgctg	ggctgcatg	gtgtgacatt	cggctaccag	ggacagaaac	120
cactctttaa	gaacttggat	tttggcatcg	acatggattc	aaggatttgc	atttggggcc	180
ctaattgggt	ggggaagagt	acgctactcc	tgtctgtgac	tggtcaagctg	acaccagacc	240
atggggaaat	gagaaaaaac	caccgggtga	aaattggctt	cttcaaccag	cagtatgcag	300
agcagctgcg	catggaggag	acgccactg	agtacctgca	gcggggcttc	aaactgcctt	360
accaggatgc	ccgcaagtgc	ctggggccgt	tcggcctgga	gagtcacgcc	cacaccatcc	420
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gggaacctga	tgctctctac	ttggacgagc	caaccaataa	cctggacata	gagtcatttg	540
atgctctagg	ggaggccatc	aatgaataca	agggtgctgt	gatcgttgct	agccatgatg	600
ccgactcat	cacagaaacc	aattgccagc	ttgtgggttg	tggaggaaca	gagtggtagc	660
ccaatcgatg	gtgactttga	agactacaag	ccgggaggtg	ttggaagccc	tgggtgaagt	720
catgggcagc	cngggcccgga	naagtgaagc	tttctttccc	agaagntccc	gagagaacat	780
aattgggggg	gcctaaaaann	cctctggggg	cttcccttct	tttgaanaat	gctntggntc	840
gcaantgact	tggcaaccat	ttaggccctt	taaagg			876

<210> 461

<211> 689
 <212> DNA
 <213> Homo Sapiens

<400> 461

gcaaaacaaga	tccatttagt	ggggaagagg	ggactattaa	aagctgctag	aaaactgaat	60
aaagcaaatc	aagactgaga	acagttccaa	ctcccatcaa	tctccaaaca	gtgacaggtc	120
ggcagcaact	cctttctctt	atttcttccc	cttgtaaagg	gaaattcaag	ttcagcagca	180
ttcctttcct	gccccagtc	ctcaaccaga	caagaggctg	caggcaccaa	atcttgggct	240
ggataatggc	aaaggcctca	gaagctcacc	tccagctctg	agcttcaaca	gctgtttgta	300
ccagtgtagtc	agcattaaat	ccaccagaaa	agaacagcac	cacccaaaga	ctgggggggca	360
gctggggctg	aagctgttag	gtaaatcaga	ggcaggcttc	tgagtgtaga	gagtccttag	420
acaataggcc	acataaactt	ggctggatgg	aacctcaca	taaggtggtc	acctcttgtt	480
tggttagggg	gatgccaagg	ataaggccag	ctcagttata	tgaagagaag	cagaacaaac	540
aaagtctctt	agagaaatgg	atgcaatcag	aagtgggatc	cccggncaca	tcaagggtcac	600
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canaaggaag	gggagaccac	agaggactt				689

<210> 462
 <211> 840
 <212> DNA
 <213> Homo Sapiens

<400> 462

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cggacgagga	ggatgaggat	aatactagt	aagccgagaa	tgggttctcc	ctggaggaag	120
tggtacggtc	cggaggcacc	aagcaagatt	accttatgct	ggctactttg	gatgagaatg	180
aggaaagtgt	agatggaggc	aaaaaaggag	caatcgatga	ccttcagcaa	ggtgaattgg	240
aagcatttat	tcaaaatctt	aatttggcga	agtatacaaa	agcttctcta	attgaagaag	300
atgaaccagg	tgaaaaagaa	aattccagca	aaaaagaagt	aaaaatacct	aaaataaata	360
ataaaaaaac	agcagaaagt	caaaggacat	cagttaataa	ggtgaaaaat	aagaaataggc	420
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acatctttga	atttttttag	agacagactt	tgttacttag	gcctggaggc	aaatggtatg	540
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acaaaaacct	tgctcagaag	ctgtatcagc	atgaaatcaa	cttattcaaa	agtaagacga	660
atagtcaaaa	gggagcctct	tctacctgga	tgaaggcga	ttgtgtcatc	ggggaccact	720
agggtacagg	atggcagcca	ttgattcttc	ttattcagga	tgatgccgtg	tcacaccact	780
ttcagnttgt	agnaaactct	tggggaaccc	ttggtaaaaa	ggaanggcna	caaaacagca	840

<210> 463
 <211> 784
 <212> DNA
 <213> Homo Sapiens

<400> 463

agatgtaagt	agaatttttaa	tctataattt	acattaataa	ctcatttctt	ttgtttttta	60
gtttttttgag	tggtttttaat	cctcttcttt	ttaaaatggt	tctttttctt	gatgatactt	120
tttgcatctc	tggtgtgtag	ccagtcacat	cggttcagct	cccatctaa	ctgttttgaga	180
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tttcttttct	tttttcttgg	cccttgaaat	gagccagcaa	agtcaaaatc	atctgtacct	360
tttctcttgc	tttctcttagt	actgaacttg	gagtggaact	caagttcttg	aacactctca	420
ctttcatcat	ctaacacatc	catgaatggt	cctccatctt	catcaacttc	agcaaatctt	480
tcatcatcca	tacttctcaa	agaaacttca	tcgtcatcca	ggttaccag	ttcatcatca	540
ctaccttctg	aattcttcat	taattgtgta	tccttagctc	cttttggtct	ctttttcagc	600

tttccagcaa	aaatccatat	catcctttnc	agagctgaaa	cagttatcat	cttcaaatgt	660
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aaac						784

<210> 464
 <211> 850
 <212> DNA
 <213> Homo Sapiens

<400> 464	
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agcctggaga	gcattctctc
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aaggagctgc	ctggacagac
cctgcactgg	gggcccagg
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ggactaccgc	gccctggccg
180	
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gtgcagagg	tacgtctcgg
agcagctgga	gggaagatgg
240	
ctgaatctcc	ctgctccccct
agtggccagc	agcgcctctc
ccgcctctct	ccggatgagc
300	
tgcccccaa	tgtgaagcag
gcctacagg	ccttcgcggc
cgtgcccact	tctcaccgc
360	
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ccccccacgc	ctgggctcgc
agcctccccg	gagcagctgt
420	
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tactttgagc	tggaggtgcg
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agagcgacga	tgctgcggga
ggcggcagaa	gctggggccg
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cccacttaag	gcagaaccgc
gcgtcccccc	ggccctggaa
720	
gtggcgcccc	ggctgcggagc
gncaaaagct	gaacggggcc
ancaggaacc	ggttgcctct
780	
canagtnccg	gaccacccgg
gaccccancc	tgccctggtc
ccttgcccaa	cttcggggcc
840	
ctggaaggcc	
850	

<210> 465
 <211> 759
 <212> DNA
 <213> Homo Sapiens

<400> 465	
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ctccttaaac	cacaaaaatag
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<211> 885

<212> DNA

<213> Homo Sapiens

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<211> 748

<212> DNA

<213> Homo Sapiens

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<211> 770

<212> DNA

<213> Homo Sapiens

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<211> 892

<212> DNA

<213> Homo Sapiens

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<211> 759

<212> DNA

<213> Homo Sapiens

<400> 471

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<211> 852

<212> DNA

<213> Homo Sapiens

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<210> 473

<211> 804

<212> DNA

<213> Homo Sapiens

<400> 473

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<211> 819

<212> DNA

<213> Homo Sapiens

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<213> Homo Sapiens

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<212> DNA

<213> Homo Sapiens

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cagaaaagtg	tttgtggggg	cgctgtacag	angacatgac	tgangataan	cttcnggagt	720
tcttttttta	ataccgggat	gtgatggatg	cttcatttcc	caacccttcc	agggcctttg	780
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<210> 480

<211> 812

<212> DNA

<213> Homo Sapiens

<400> 480

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cttcaaaatc	tctctagggt	aaaaataaaa	cccgatatca	tgcagttacca	ttaaacattgt	180
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gtaaaagaag	gattaaacca	tgcctgtgac	aagttaaact	accctggggc	tctttgaagg	300
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tgtcagtagta	tagtgcaagt	gcatttttag	tgcggtcacc	cagacttatt	caaaactaga	420
tttcaaaaaga	aaaaaaaata	ttttcacttt	ggccaatgca	agaacaaaata	ccaatttaagt	480
ctgggtatca	ggtgtcaatg	catgacaggt	gatgaatcca	tttgacttga	gacaactttt	540
caaatcaagtt	tatttgaagc	aaaataaaat	actgccaaga	aactttatga	aaagtccat	600
cttcaaaagg	ggtcaaaaaa	ggggaattaa	ctgctatgaa	tcttttgcag	tcanggtgc	660
aaaacaaaaga	cccatatta	tttaaaatcc	agtttattta	agaattttcc	accntggaca	720
actttcttatt	aaaaaggcgt	tccaggccca	nggaccacag	aaactgnang	ccaaacangc	780
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<210> 481

<211> 1127

<212> DNA

<213> Homo Sapiens

<400> 481

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ccaaagcgtt	gaggatcctg	cagaatgagc	ccctgccaga	gaggctggag	gtgaatggaa	120
gagaatccga	agaagaaaaa	ctcaataaat	ctgaaataag	tcaagtgttt	gagattgcac	180
ttaaacggaa	cttgctctgt	aatttcgagg	tggcccggga	gagtggccca	ccccacatga	240
agaactttgt	gaccaagggt	tgggttgggg	agtttgtggg	ggaaggtgaa	gggaaaagca	300
agaagatttc	aaagaaaaat	gccgccatag	ctgttcttga	ggagctgaag	aagttaaccg	360
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tccagcaggc	aaaaaaggag	aaggagccag	agtcacagct	cctcacagag	cgaggcctcc	540
cgcgccgag	ggagttttgt	atgcagggtga	aggttggaaa	ccacactgca	gaaggaaacgg	600
gcaccaacaa	gaaggtggcc	aagcgcgaat	cagccagaga	catgctggag	atccttgggt	660
tcaaagtccc	gcaggcgag	ccacccaac	cgcaactcaa	gtcagaggag	aagacacca	720
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aataacatct cttcaggcca cgtaccccat ggacctctca cgagaccctn tgagcaactg 1080
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<210> 482

<211> 773

<212> DNA

<213> Homo Sapiens

<400> 482

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cccagatcca gcaggcaaaa aaggagaagg agccagagta cagcctctc acagagcgag 180
gcoctccgag cgcaggggag ttgtgatgc aggtgaaggt tggaaaccac actgcagaag 240
gaacgggccc caacaagaag gtggccaagc gcaatgcagc cgagaacatg ctggagatcc 300
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caccataaaa gaaaccaggg gatggaagaa agttaacct tttgaaacct ggcctctggg 420
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ctgccatgat agcccagagag ttgtgtgatg gggggcacct gccacagcc cgagaccatt 660
ttaaagaata acatctcttc aggccacgta ccccatggac ctctcacgag accctntgag 720
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<210> 483

<211> 794

<212> DNA

<213> Homo Sapiens

<400> 483

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ggcaagttag gaggggacca acctagcagt agnggcattt ganaataaat tancaaaaaa 180
atttagtatt accatttatt gatgacaaac acttaagttt tacttacatt ccatggggag 240
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caaaagcaac acagntgtat acagaaaacgt aggtcattct ttccagccct aanggagatg 420
taattaacag tatecagcac tntggaaaat cactctgcag gtttatatgg actacatgga 480
gatcatatcc ttagttagt tagaaagctaa gtctcaaga gccatagta tagatncaca 540
atgtttttta ataattctta aaacagagat caaagttcat ttaagncttg tttgcatc 600
caaaaataaaa aatgaataaa aaatggaaac aaatgaacat ctaangttta aaattcctaa 660
atnggccaat ttatncaact gngggggaga cttattcaag ggttttgaag gtccaggaac 720
tggtttcaag ctggaaccca gggggggccc acaatttggc attcnctgga aactggccct 780
ggggttaagc caaa 794

<210> 484

<211> 788

<212> DNA

<213> Homo Sapiens

<400> 484

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gttcaagggt ccagagacct ctgagtatgt tgatggatgt aaaaacatgc aatgaggtgg 180
acctggagaa ttctgcagat tgggaagtga agacaataac aagtgccttg aaacagattt 240
tgaggagtct tccagagcct ctcatgacct atgagttaca tggagatttc attgttccag 300

cctaaagcgg	cagccagaa	tctcgtgta	atgcgatcca	tttcttgga	cacaaactgc	360
cagagaagaa	taaagagatg	ttggatattt	tggtgaaaca	cttaacaaat	gtttcaaatc	420
actccaagca	gaacctgatg	actgtggcaa	acttaggagt	gggtgttgga	ccaactctga	480
tgaggccaca	ggaagaaact	gtcgtgcct	catggacttg	aagtttcaga	atattgttgt	540
ggaaatctta	attgaaaacc	atgaaaagat	ttttcggacg	ccgnccgata	ctacattccc	600
tgagcccacc	tgccctgtcag	catcaccccc	aaatgcgcca	ccaangcagt	cnaagagaca	660
aggnccagaga	accaagaagg	cccggtggcc	gtctacaatc	tttggttgga	gctggaaaaga	720
tggtgacaat	ccttaccctt	tccangggagg	acacccctta	ccacagtcgt	gactcacttt	780
tcttcccg						788

<210> 485
 <211> 430
 <212> DNA
 <213> Homo Sapiens

<400> 485	
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acagcacacg	ggtagggagc
agtgccagtg	gtgtgggggc
gtctctgctt	ccctntgact
taggctgcca	cagccaagca
tttanaatcg	nagcagcang
tgactgccag	tnagggcgga
atgctgngat	

<210> 486
 <211> 831
 <212> DNA
 <213> Homo Sapiens

<400> 486	
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ttatgggtac	aaaaccagtg
tttgtacttc	tggaattggt
catatcatat	ttcatctact
attcaaatgg	tgattctgcc
cttgtctcag	aaatatttgt
aaccaactaa	tgacgatatt
ttattagcaa	cttttctgca
tgacatcatt	ggaagttaca
taaaggagaa	aaccctccca
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ctcttcagaa	tcagttaaac

<210> 487
 <211> 728
 <212> DNA
 <213> Homo Sapiens

<400> 487	
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cagggtgcctg	ccaccacgcc

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ctttatctcc	taccttgatc	tctgtagcag	aaaagaacag	tatagatatc	aattgtcatc	360
aacagatgca	acatatcttg	taaatacaata	tattttcaag	tgaggtctct	gaatcacctg	420
cactgaaatc	atctgtgatg	cttatcaagc	atgcagattc	tcaggaccct	tcactgactt	480
cataaatctt	catctctgga	ggtgagacc	tggaacctgt	atatgcaacg	agcacaccac	540
caatccctga	tgagccccgc	ttttctctct	tgccagaacc	ttaatgccac	gcagcattac	600
attaagtcac	attacaactt	tggtcaatgg	aaacacaggg	tctttttctg	acaaaatgcc	660
atcaagccag	gtttggctcc	ccacttaagt	tcaaatnttt	aatcattaat	ttcttgagcc	720
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<210> 488

<211> 788

<212> DNA

<213> Homo Sapiens

<400> 488

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tgcccccgag	gcctccgacc	gcgcgcgcgc	aggaatcagt	gacattcaaa	gatgtgtctg	120
tggaacttcac	ccaggaagaa	tggtaccatg	tcgacctgcg	tcaggaggagc	ttatacaggg	180
atgtgatgct	ggagaactat	agccacctgg	ttctctctgg	atatcaagtt	tccagccag	240
aggtgatctt	caaatctggag	caaggagaag	agccatggat	atcagagggga	gaaatccaac	300
gacctttcta	tcagactcgg	aagaccaggg	ctgaagtcaa	atcatcacat	ttgcagcagg	360
atgtatcaga	agtatccac	tgccacatg	atctcttaca	tgctacatta	gaagactcct	420
gggatgttag	cagccagtta	gacggggaac	aggaaaaactg	gaagagacat	ctgggattcag	480
aggcatccac	ccaggaagaa	ataattacac	cacaagaaaa	ttttgagcaa	aataaatttg	540
tgaaaatttc	tagattgaac	accaatttgg	ttacacaaact	gaacattcct	gcaagaataa	600
ggcctagtga	atgtgagacc	cttggaagca	atttgggaca	taatgcagac	ttacttaattg	660
agaataatat	tcttgcaaaa	aagaaaccct	tttagtgnga	taatgtagaa	aagntcttan	720
tcatagatca	tcgnttacta	aaccttgaga	aaacccctta	anggaaaagg	gagctttcct	780
aatgggac						788

<210> 489

<211> 875

<212> DNA

<213> Homo Sapiens

<400> 489

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gttaattttt	ttaatggtga	aatcttttct	ttgcacataa	aatgagccag	tgcatgttgc	180
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gaaaaatcac	gggaaaaatc	tctcttagt	ttctgttgt	ttcccatgt	atctgatact	300
gtaggcttaa	gaaagtgcct	tttcatgggc	atgccataaa	aagtacaata	aggggactta	360
atagttctgt	gaaactggca	tatgttagct	gaaagtataa	ttgtaactgg	gaaaaggggga	420
aaaaagtcac	tagtagttca	accatctaca	gtttctgtta	aattgtgggt	tgtaagccctc	480
caagaagtgg	ctttaaatag	tttgtgataa	atttgcatac	attttgctcc	cacttatact	540
tttaagaatt	ctcaaatgtg	ccaacccata	ggtgcccatt	aaatgtttgt	gtactctgac	600
atcttaaaat	ttattttaaa	gccctctgag	tcccaaaaaa	aaccttttca	ctggcagggc	660
catggggccc	caaatccagg	aaacccctggc	atttttaacc	caacttttac	ccttataggc	720
tggaatcata	ctnggggaaa	cccacttcac	atcttttggc	tttcagtcct	caactcgncc	780
cnaatggaaa	atgggttggg	cctagttgga	actaaattct	tttgaatggg	ggaactttcct	840
ggaaattggg	aactnggttt	ccatggggga	aagtt			875

<210> 490

<211> 844
<212> DNA
<213> Homo Sapiens

<400> 490

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gtggccacc ccacatgaag aactttgtga ccaagggttc ggttggggag ttgtggggg	120
aaggatgaagg gaaaagcaag aagatttcaa agaaaaatgc cgccatagct gttcttgagg	180
agctgaagaa gttaccgccc ctgcctgcag ttgaacgagt aaagcctaga atcaaaaaga	240
aaacaaaacc catagtcagg ccacagacaa gcccagaata tggccagggtg atcaatccga	300
ttagccgact ggcccagatc cagcaggcaa aaaaggagaa ggagccagag tacacgtccc	360
tcacagagcg aggcctcccgc cgcgcagggt agtttgtgat gcagggtgaag gttggaaacc	420
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tgtctggagt ccttgggttc aaagtccgc aggcgcagcc caccaaaacc gcactcaagt	540
cagaggagaa gacacccata aagaaaccag gggatggaag aaaagtaacc ttttttgaac	600
ctgctcttgg ggaatgaaat gggactagta ataaaggaga tgagtccagg atgccttacc	660
taagtcatca gcagctgcct gctggaattc ttcccatggt gcccgangtc gcccaagctg	720
taggaagtta gtcaaggaca tnacacccaa gattttacca ggcagcttcg aatcttgcca	780
nggncngta ctgccatgat agcccanagt tgttgtattg gggcancttt gccccaggcc	840
ggga	844

<210> 491
<211> 825
<212> DNA
<213> Homo Sapiens

<400> 491

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ttgcccagat ggaatcacaa gcattacaaa gttttttctt aaaaaataaa aaaggatagg	120
ggcaagttgg gaggggacca acctagcagt agtggcattt gagaataaat taacaaaaaa	180
atttagtatt accatttatt gatgacaaac acttaagtgt tacttacatt ccattggggag	240
aaaaattcca gcgtaacaa tgaatggaag cagtacttaa ctgcagggtc taccaggctt	300
tcctacagga ccacacgcag agcctcagtg cacacacttc tgtgtacagt aacacaacat	360
caaaagcaac acagctgtat acagaaacgt aggtcattct ttccagccct aatggagatg	420
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acaaaaataa aatatganaat aaaaatggac caaatgatca tctaaagtgt aaaattccta	660
aatggtccaa ttatataaac tgggggagac ttattcaagg tttttgaaag tccaggactg	720
gtttcagctg aaccagangg ccccaattt gcctcactgg aactgncctg ggtttagcca	780
aggaataaa aaaagnccta acccccttcc cctgggattt gaacc	825

<210> 492
<211> 946
<212> DNA
<213> Homo Sapiens

<400> 492

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gagaatccga agaagaaaat ctcaataaat ctgaaataag tcaagtgttt gagattgcac	180
ttaaacggaa ctgtcctgtg aatttcgagg tggcccggga gagtggccca cccacatga	240
agaactttgt gaccaaagtt tcgggtgggg agtttgtggg ggaaggtgaa gggaaaaagca	300
agaagatttc aaagaaaaat gccgccatag ctgttcttga ggagctgaag aagtaccgc	360
ccctgcctgc agttgaacga gtaaacctta gaatcaaaaa gaaacaaaaa cccatagtca	420

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<210> 493

<211> 804

<212> DNA

<213> Homo Sapiens

<400> 493

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gtaagagagga	gcccataatcn	ggaatggagt	tcttccattt	tcagataaac	cctgggcnncn	720
aagcaaggca	tgggatcccc	tggaaattg	anaaanttgg	gttgacagggn	ccatacnccg	780
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<210> 494

<211> 856

<212> DNA

<213> Homo Sapiens

<400> 494

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tctttttctt	ctcaggagca	gtatgaacat	taccatgcca	tttttgacca	aatgcagcaa	180
caaagagcag	aagataatga	agctaaatgg	aaaagagaaa	tatatggtcg	aggtcttcca	240
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cgaaaaacggg	aagctatgca	gaataaagct	cgagccgaag	gacatatggg	aatcctgcaa	360
aacctggcag	ctatgtatgg	aggcaggccc	agctcttcaa	gaggagggaa	gccaagaaac	420
aaagagggaag	aggtttatct	ggcaagactg	aggcaataaa	gactacagaa	tttcaatgag	480
cgccaacaga	ttaaagccaa	acttcgtggg	gaaaagaaaag	aagctaatca	ttctgaagga	540
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tgcaaatgca	cgtgctgctg	tctaaaagaa	cactagaacg	aaagagaaaag	gaggcttatg	660
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aaanctggta	nttctgggnac	ttcacttttn	aagaanttgg	ccgtggngngt	agtttaactg	840
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<210> 495

<211> 757

<212> DNA

<213> Homo Sapiens

<400> 495

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agataaagatt	ttatttttca	aattacatat	tatgccaaac	agcctgcttt	ggatcagag	180
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aaatcctntc	ataacagaaa	gaagttcaac	aggcaaacat	ttccctccct	aggatcctag	360
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<210> 496

<211> 1759

<212> DNA

<213> Homo Sapiens

<400> 496

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 <211> 842
 <212> DNA
 <213> Homo Sapiens

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 <211> 707
 <212> DNA
 <213> Homo Sapiens

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<210> 500

<211> 787

<212> DNA

<213> Homo Sapiens

<400> 500

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<210> 501

<211> 886

<212> DNA

<213> Homo Sapiens

<400> 501

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<210> 502

<211> 626

<212> DNA

<213> Homo Sapiens

<400> 502

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<210> 503

<211> 884

<212> DNA

<213> Homo Sapiens

<400> 503

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<210> 504

<211> 612

<212> DNA

<213> Homo Sapiens

<400> 504

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<210> 505

<211> 2215

<212> DNA

<213> Homo Sapiens

<400> 505

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<211> 742

<212> DNA

<213> Homo Sapiens

<400> 506

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 <212> DNA
 <213> Homo Sapiens

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 <212> DNA
 <213> Homo Sapiens

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<210> 510

<211> 651

<212> DNA

<213> Homo Sapiens

<400> 510

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<211> 712

<212> DNA

<213> Homo Sapiens

<400> 511

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<210> 512

<211> 850

<212> DNA

<213> Homo Sapiens

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<211> 727

<212> DNA

<213> Homo Sapiens

<400> 513

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<210> 514

<211> 877

<212> DNA

<213> Homo Sapiens

<400> 514

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877

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<211> 685
<212> DNA
<213> Homo Sapiens

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<210> 516
<211> 790
<212> DNA
<213> Homo Sapiens

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<210> 517
<211> 747
<212> DNA
<213> Homo Sapiens

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<210> 518

<211> 926

<212> DNA

<213> Homo Sapiens

<400> 518

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<210> 519

<211> 789

<212> DNA

<213> Homo Sapiens

<400> 519

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<211> 827

<212> DNA

<213> Homo Sapiens

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 <211> 710
 <212> DNA
 <213> Homo Sapiens

<400> 521
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<210> 522
 <211> 638
 <212> DNA
 <213> Homo Sapiens

<400> 522
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<212> DNA

<213> Homo Sapiens

<400> 523

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<210> 524

<211> 766

<212> DNA

<213> Homo Sapiens

<400> 524

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<211> 847

<212> DNA

<213> Homo Sapiens

<400> 525

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<211> 746

<212> DNA

<213> Homo Sapiens

<400> 526

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<210> 527

<211> 837

<212> DNA

<213> Homo Sapiens

<400> 527

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<210> 528

<211> 822

<212> DNA

<213> Homo Sapiens

<400> 528

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<210> 529

<211> 842

<212> DNA

<213> Homo Sapiens

<400> 529

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<211> 815

<212> DNA

<213> Homo Sapiens

<400> 530

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<210> 534

<211> 789

<212> DNA

<213> Homo Sapiens

<400> 534

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<211> 802

<212> DNA

<213> Homo Sapiens

<400> 535

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<212> DNA

<213> Homo Sapiens

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<210> 537

<211> 761

<212> DNA

<213> Homo Sapiens

<400> 537

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<210> 538

<211> 869

<212> DNA

<213> Homo Sapiens

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ctatggaagc	tggagaagcn	tacccaagac	ggtnccccct	gggcaccccc	ttaagcaggc	840
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<210> 539
 <211> 760
 <212> DNA
 <213> Homo Sapiens

<400> 539						
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ctctgaaca	tactgtcttt	catctagact	cagaagctag	acataaaaatt	taaaaaaagaa	420
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<210> 540
 <211> 874
 <212> DNA
 <213> Homo Sapiens

<400> 540						
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<210> 541
 <211> 729
 <212> DNA
 <213> Homo Sapiens

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ggcgtggg						729

<210> 542

<211> 830

<212> DNA

<213> Homo Sapiens

<400> 542

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<210> 543

<211> 733

<212> DNA

<213> Homo Sapiens

<400> 543

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<210> 544

<211> 852

<212> DNA

<213> Homo Sapiens

<400> 544

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cagccctggc cagagaggag tgccctgagac taacagaact gctgggcgaa tctgagcacc      240
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<210> 545

<211> 414

<212> PRT

<213> Homo Sapiens

<400> 545

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 20          25          30
Tyr Gln Arg Thr Cys Glu Asp Leu Lys Glu Gln Leu Lys His Lys Glu
 35          40          45
Phe Leu Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu
 50          55          60
Lys Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val
 65          70          75          80
His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met
 85          90          95
Ser Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg
100          105          110
Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu
115          120          125
Glu Ala Asn Phe Glu Lys Thr Lys Ala Leu Ile Gln Cys Asp Gln Leu
130          135          140
Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala
145          150          155          160
Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu
165          170          175
Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser
180          185          190
Gln Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu
195          200          205
Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala
210          215          220
Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln
225          230          235          240
Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg
245          250          255
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Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu
 260 265 270
 Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu
 275 280 285
 Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu
 290 295 300
 Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Ser
 305 310 315 320
 Glu Ile Ala Gln Leu Ser Gln Glu Lys Arg Tyr Thr Tyr Asp Lys Leu
 325 330 335
 Gly Lys Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln
 340 345 350
 His Gly Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp
 355 360 365
 Lys His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys
 370 375 380
 Gln Asn Gln Leu Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp
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<210> 546

<211> 2885

<212> DNA

<213> Homo Sapiens

<400> 546

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<210> 547

<211> 897

<212> PRT

<213> Homo Sapiens

<400> 547

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35 40 45
Ser Tyr Lys Leu Pro Leu Pro Gly Pro Tyr Asp Ser Arg Asp Asp Phe
50 55 60
Pro Leu Arg Lys Thr Ala Ser Glu Pro Asn Leu Lys Val Arg Ser Arg
65 70 75 80
Leu Lys Gln Lys Val Ala Glu Arg Arg Ser Ser Pro Leu Leu Arg Arg
85 90 95
Lys Asp Gly Thr Val Ile Ser Thr Phe Lys Lys Arg Ala Val Glu Ile
100 105 110
Thr Gly Ala Gly Pro Gly Ala Ser Ser Val Cys Asn Ser Ala Pro Gly
115 120 125
Ser Gly Pro Ser Ser Pro Asn Ser Ser His Ser Thr Ile Ala Glu Asn
130 135 140
Gly Phe Thr Gly Ser Val Pro Asn Ile Pro Thr Thr Met Leu Pro Gln
145 150 155 160
His Arg Ala Leu Pro Leu Asp Ser Ser Pro Asn Gln Phe Ser Leu Tyr
165 170 175
Thr Ser Pro Ser Leu Pro Asn Ile Ser Leu Gly Leu Gln Ala Thr Val
180 185 190
Thr Val Thr Asn Ser His Leu Thr Ala Ser Pro Lys Leu Ser Thr Gln
195 200 205
Gln Glu Ala Glu Arg Gln Ala Leu Gln Ser Leu Arg Gln Gly Thr

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210	215	220
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225	230	235
Gly Val Ala Leu Glu Gly Asp Gly Ser Pro His Gly His Ala Ser Leu		
	245	250
Leu Gln His Val Leu Leu Leu Glu Gln Ala Arg Gln Gln Ser Thr Leu		
	260	265
Ile Ala Val Pro Leu His Gly Gln Ser Pro Leu Val Thr Gly Glu Arg		
	275	280
Val Ala Thr Ser Met Arg Thr Val Gly Lys Leu Pro Arg His Arg Pro		
	290	295
Leu Ser Arg Thr Gln Ser Ser Pro Leu Pro Gln Ser Pro Gln Ala Leu		
305	310	315
Gln Gln Leu Val Met Gln Gln Gln His Gln Gln Phe Leu Glu Lys Gln		
	325	330
Lys Gln Gln Gln Leu Gln Leu Gly Lys Ile Leu Thr Lys Thr Gly Glu		
	340	345
Leu Pro Arg Gln Pro Thr Thr His Pro Glu Glu Thr Glu Glu Glu Leu		
	355	360
Thr Glu Gln Gln Glu Val Leu Leu Gly Glu Gly Ala Leu Thr Met Pro		
	370	375
Arg Glu Gly Ser Thr Glu Ser Glu Ser Thr Gln Glu Asp Leu Glu Glu		
385	390	395
Glu Asp Glu Glu Glu Asp Gly Glu Glu Glu Asp Cys Ile Gln Val		
	405	410
Lys Asp Glu Glu Gly Glu Ser Gly Ala Glu Glu Gly Pro Asp Leu Glu		
	420	425
Glu Pro Gly Ala Gly Tyr Lys Lys Leu Phe Ser Asp Ala Gln Pro Leu		
	435	440
Gln Pro Leu Gln Val Tyr Gln Ala Pro Leu Ser Leu Ala Thr Val Pro		
	450	455
His Gln Ala Leu Gly Arg Thr Gln Ser Ser Pro Ala Ala Pro Gly Gly		
465	470	475
Met Lys Asn Pro Pro Asp Gln Pro Val Lys His Leu Phe Thr Thr Ser		
	485	490
Val Val Tyr Asp Thr Phe Met Leu Lys His Gln Cys Met Cys Gly Asn		
	500	505
Thr His Val His Pro Glu His Ala Gly Arg Ile Gln Ser Ile Trp Ser		
	515	520
Arg Leu Gln Glu Thr Gly Leu Leu Ser Lys Cys Glu Arg Ile Arg Gly		
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Arg Lys Ala Thr Leu Asp Glu Ile Gln Thr Val His Ser Glu Tyr His		
545	550	555
Thr Leu Leu Tyr Gly Thr Ser Pro Leu Asn Arg Gln Lys Leu Asp Ser		
	565	570
Lys Lys Leu Leu Gly Pro Ile Ser Gln Lys Met Tyr Ala Val Leu Pro		
	580	585
Cys Gly Gly Ile Gly Val Asp Ser Asp Thr Val Trp Asn Glu Met His		
	595	600
Ser Ser Ser Ala Val Arg Met Ala Val Gly Cys Leu Leu Glu Leu Ala		
	610	615
Phe Lys Val Ala Ala Gly Glu Leu Lys Asn Gly Phe Ala Ile Ile Arg		
625	630	635
Pro Pro Gly His His Ala Glu Glu Ser Thr Ala Met Gly Phe Cys Phe		
	645	650
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Phe Asn Ser Val Ala Ile Thr Ala Lys Leu Leu Gln Gln Lys Leu Asn
 660 665 670
 Val Gly Lys Val Leu Ile Val Asp Trp Asp Ile His His Gly Asn Gly
 675 680 685
 Thr Gln Gln Ala Phe Tyr Asn Asp Pro Ser Val Leu Tyr Ile Ser Leu
 690 695 700
 His Arg Tyr Asp Asn Gly Asn Phe Phe Pro Gly Ser Gly Ala Pro Glu
 705 710 715 720
 Glu Val Gly Gly Gly Pro Gly Val Gly Tyr Asn Val Asn Val Ala Trp
 725 730 735
 Thr Gly Gly Val Asp Pro Pro Ile Gly Asp Val Glu Tyr Leu Thr Ala
 740 745 750
 Phe Arg Thr Val Val Met Pro Ile Ala His Glu Phe Ser Pro Asp Val
 755 760 765
 Val Leu Val Ser Ala Gly Phe Asp Ala Val Glu Gly His Leu Ser Pro
 770 775 780
 Leu Gly Gly Tyr Ser Val Thr Ala Arg Cys Phe Gly His Leu Thr Arg
 785 790 795 800
 Gln Leu Met Thr Leu Ala Gly Gly Arg Val Val Leu Ala Leu Glu Gly
 805 810 815
 Gly His Asp Leu Thr Ala Ile Cys Asp Ala Ser Glu Ala Cys Val Ser
 820 825 830
 Ala Leu Leu Ser Val Lys Leu Gln Pro Leu Asp Glu Ala Val Leu Gln
 835 840 845
 Gln Lys Pro Asn Ile Asn Ala Val Ala Thr Leu Glu Lys Val Ile Glu
 850 855 860
 Ile Gln Ser Lys His Trp Ser Cys Val Gln Lys Phe Ala Ala Gly Leu
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<210> 548
 <211> 1298
 <212> DNA
 <213> Homo Sapiens

<400> 548
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 <212> PRT
 <213> Homo Sapiens

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 35 40 45
 Glu Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Arg
 50 55 60
 Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly
 65 70 75 80
 Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr
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 Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile His Arg
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 Glu Ile Ala Phe Asn Lys Thr His Lys Ser Ser Pro Asn Gly Thr Leu
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 145 150 155 160
 Glu Lys Glu Glu Pro Ala Ile Ala Pro Ile Glu His Val Leu Ser Gly
 165 170 175
 Trp Lys Ala Arg Thr Pro Leu Glu Gln Glu Ile Phe Asn Leu Leu His
 180 185 190
 Lys Asn Lys Gln Pro Val Thr Asp Pro Leu Leu Thr Pro Val Glu Lys
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 Glu Leu Gln Arg Ala Arg Ala Leu Gln Ser Tyr Tyr
 225 230 235

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 <212> DNA
 <213> Homo Sapiens

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<210> 551
 <211> 652
 <212> PRT
 <213> Homo Sapiens

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20          25          30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
35          40          45
Val Ile Asn Glu Pro Ser Arg Leu Phe Asp Ala Ile Arg Pro
50          55          60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
65          70          75          80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
85          90          95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
100         105         110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu

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Cys	Thr	His	Glu	Glu	Val	Ile	Asn	Leu	Ile	Arg	Thr	Lys	Lys	Thr	Val
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Ser	Ile	Lys	Val	Arg	His	Ile	Gly	Leu	Ile	Pro	Val	Lys	Ser	Ser	Pro
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Asp	Glu	Pro	Leu	Thr	Trp	Gln	Tyr	Val	Asp	Gln	Phe	Val	Ser	Glu	Ser
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Lys	Arg	Leu	Ala	Met	Glu	Ser	Asn	Lys	Ile	Leu	Gln	Glu	Gln	Gln	Glu
			325						330					335	
Met	Glu	Arg	Gln	Arg	Arg	Lys	Glu	Ile	Ala	Gln	Lys	Ala	Ala	Glu	Glu
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Asn	Glu	Arg	Tyr	Arg	Lys	Glu	Met	Glu	Gln	Ile	Val	Glu	Glu	Glu	Glu
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Lys	Phe	Lys	Lys	Gln	Trp	Glu	Glu	Asp	Trp	Gly	Ser	Lys	Glu	Gln	Leu
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Lys	Pro	Lys	Tyr	Asp	Gln	Gly	Val	Glu	Pro	Glu	Leu	Glu	Pro	Ala	Asp
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Asp	Leu	Asp	Gly	Gly	Thr	Glu	Glu	Gln	Gly	Glu	Gln	Asp	Phe	Arg	Lys
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Tyr	Glu	Glu	Gly	Phe	Asp	Pro	Tyr	Ser	Met	Phe	Thr	Pro	Glu	Gln	Ile
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Met	Gly	Lys	Asp	Val	Arg	Leu	Leu	Arg	Ile	Lys	Lys	Glu	Gly	Ser	Leu
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Val	Ser	Ala	Val	Tyr	Glu	Arg	Gly	Ala	Ala	Glu	Arg	His	Gly	Gly	Ile
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Val	Lys	Gly	Asp	Glu	Ile	Met	Ala	Ile	Asn	Gly	Lys	Ile	Val	Thr	Asp
			500					505				510			
Tyr	Thr	Leu	Ala	Glu	Ala	Asp	Ala	Ala	Leu	Gln	Lys	Ala	Trp	Asn	Gln
	515					520						525			
Gly	Gly	Asp	Trp	Ile	Asp	Leu	Val	Val	Ala	Val	Cys	Pro	Pro	Lys	Glu
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Tyr	Asp	Asp	Glu	Leu	Thr	Phe	Leu	Leu	Lys	Ser	Lys	Arg	Gly	Asn	Gln
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Ile His Ala Leu Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn Thr
 565 570 575
 Lys Pro Arg Thr Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp
 580 585 590
 His Pro Trp Asp Leu Asn Leu Ser Pro Arg Asn Leu Lys Leu Pro Leu
 595 600 605
 Ala Leu Asn Gln Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu
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 Gly Gln Cys Gly Gly Lys Gly Ala Ala Ser Arg Leu Gly Glu Asp Leu
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 645 650

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 <211> 2162
 <212> DNA
 <213> Homo Sapiens

<400> 552

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2162

<210> 553
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 <213> Homo Sapiens

<400> 553

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Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
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Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
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Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
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Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
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Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
          180          185          190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
          195          200          205
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
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Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
          225          230          235          240
Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
          245          250          255
Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys
          260          265          270
Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile
          275          280          285
Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
          290          295          300
Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
          305          310          315          320
Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu
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Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
          340          345          350
Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu
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Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu

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 <212> DNA
 <213> Homo Sapiens

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 <211> 493
 <212> PRT
 <213> Homo Sapiens

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 35 40 45

Phe Leu Leu Ala Ala Asn Thr Cys Asn Arg Val Gly Gly Leu Cys Leu
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Lys Cys Ala Gln His Glu Ala Val Leu Ser Gln Thr His Thr Asn Val
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His Met Gln Thr Ile Glu Arg Leu Val Lys Glu Arg Asp Asp Leu Met
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Ser Ala Leu Val Ser Val Arg Ser Ser Leu Ala Asp Thr Gln Gln Arg
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Glu Ala Ser Ala Tyr Glu Gln Val Lys Gln Val Leu Gln Ile Ser Glu
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Arg Lys Glu Leu Glu Arg Gln Ala Glu Arg Leu Glu Lys Glu Leu Ala
145 150 155 160
Ser Gln Gln Glu Lys Arg Ala Ile Glu Lys Asp Met Met Lys Lys Glu
165 170 175
Ile Thr Lys Glu Arg Glu Tyr Met Gly Ser Lys Met Leu Ile Leu Ser
180 185 190
Gln Asn Ile Ala Gln Leu Glu Ala Gln Val Glu Lys Val Thr Lys Glu
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Lys Ile Ser Ala Ile Asn Gln Leu Glu Glu Ile Gln Ser Gln Leu Ala
210 215 220
Ser Arg Glu Met Asp Val Thr Lys Val Cys Gly Glu Met Arg Tyr Gln
225 230 235 240
Leu Asn Lys Thr Asn Met Glu Lys Asp Glu Ala Glu Lys Glu His Arg
245 250 255
Glu Phe Arg Ala Lys Thr Asn Arg Asp Leu Glu Ile Lys Asp Gln Glu
260 265 270
Ile Glu Lys Leu Arg Ile Glu Leu Asp Glu Ser Lys Gln His Leu Glu
275 280 285
Gln Glu Gln Gln Lys Ala Ala Leu Ala Arg Glu Glu Cys Leu Arg Leu
290 295 300
Thr Glu Leu Leu Gly Glu Ser Glu His Gln Leu His Leu Thr Arg Gln
305 310 315 320
Glu Lys Asp Ser Ile Gln Gln Ser Phe Ser Lys Glu Ala Lys Ala Gln
325 330 335
Ala Leu Gln Ala Gln Gln Arg Glu Gln Glu Leu Thr Gln Lys Ile Gln
340 345 350
Gln Met Glu Ala Gln His Asp Lys Thr Glu Asn Glu Gln Tyr Leu Leu
355 360 365
Leu Thr Ser Gln Asn Thr Phe Leu Thr Lys Leu Lys Glu Glu Cys Cys
370 375 380
Thr Leu Ala Lys Lys Leu Glu Gln Ile Ser Gln Lys Thr Arg Ser Glu
385 390 395 400
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405 410 415
Lys Leu Gln Arg Arg Asn Glu Glu Leu Glu Glu Gln Cys Val Gln His
420 425 430
Gly Arg Val His Glu Thr Met Lys Gln Arg Leu Arg Gln Leu Asp Lys
435 440 445
His Ser Gln Ala Thr Ala Gln Gln Leu Val Gln Leu Leu Ser Lys Gln
450 455 460
Asn Gln Leu Leu Leu Glu Arg Gln Ser Leu Ser Glu Glu Val Asp Arg
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Leu Arg Thr Gln Leu Pro Ser Met Pro Gln Ser Asp Cys

485

490

<210> 556
<211> 1306
<212> DNA
<213> Homo Sapiens

<400> 556

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gagatggaac	agattgtaga	ggaggaagag	aagttaaaga	agcaatggga	agaagactgg	300
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<210> 557
<211> 328
<212> PRT
<213> Homo Sapiens

<400> 557

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			20					25						30	
Arg	Lys	Glu	Met	Glu	Gln	Ile	Val	Glu	Glu	Glu	Lys	Phe	Lys	Lys	
			35					40						45	
Gln	Trp	Glu	Glu	Asp	Trp	Gly	Ser	Lys	Glu	Gln	Leu	Leu	Leu	Pro	Lys
			50					55						60	
Thr	Ile	Thr	Ala	Glu	Val	His	Pro	Val	Pro	Leu	Arg	Lys	Pro	Lys	Tyr
			70											80	
Asp	Gln	Gly	Val	Glu	Pro	Glu	Leu	Glu	Pro	Ala	Asp	Asp	Leu	Asp	Gly
			85											95	
Gly	Thr	Glu	Glu	Gln	Gly	Glu	Gln	Asp	Phe	Arg	Lys	Tyr	Glu	Glu	Gly
			100					105						110	
Phe	Asp	Pro	Tyr	Ser	Met	Phe	Thr	Pro	Glu	Gln	Ile	Met	Gly	Lys	Asp
			115					120						125	
Val	Arg	Leu	Leu	Arg	Ile	Lys	Lys	Glu	Gly	Ser	Leu	Asp	Leu	Ala	Leu
			130					135						140	

Glu Gly Gly Val Asp Ser Pro Ile Gly Lys Val Val Val Ser Ala Val
 145 150 155 160
 Tyr Glu Arg Gly Ala Ala Glu Arg His Gly Gly Ile Val Lys Gly Asp
 165 170 175
 Glu Ile Met Ala Ile Asn Gly Lys Ile Val Thr Asp Tyr Thr Leu Ala
 180 185 190
 Glu Ala Asp Ala Ala Leu Gln Lys Ala Trp Asn Gln Gly Gly Asp Trp
 195 200 205
 Ile Asp Leu Val Val Ala Val Cys Pro Pro Lys Glu Tyr Asp Asp Glu
 210 215 220
 Leu Thr Phe Leu Leu Lys Ser Lys Arg Gly Asn Gln Ile His Ala Leu
 225 230 235 240
 Gly Asn Ser Glu Leu Arg Pro His Leu Val Asn Thr Lys Pro Arg Thr
 245 250 255
 Ser Leu Glu Arg Gly His Met Thr His Thr Arg Trp His Pro Trp Asp
 260 265 270
 Leu Asn Leu Ser Pro Arg Asn Leu Lys Leu Pro Leu Ala Leu Asn Gln
 275 280 285
 Gly Gln Ile Arg Asn Ser Ser Gly His Phe Phe Glu Gly Gln Cys Gly
 290 295 300
 Gly Lys Gly Ala Ala Ser Arg Leu Gly Glu Asp Leu Lys Asp Pro Asp
 305 310 315 320
 Ser His Ser Phe Pro Leu Ala Gln
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<210> 558
 <211> 2289
 <212> DNA
 <213> Homo Sapiens

<400> 558
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<210> 559

<211> 481

<212> PRT

<213> Homo Sapiens

<400> 559

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Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
35 40 45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
50 55 60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
65 70 75 80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
85 90 95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
100 105 110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
115 120 125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
130 135 140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
145 150 155 160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
165 170 175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
180 185 190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
195 200 205
Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
210 215 220
Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
225 230 235 240
Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
245 250 255
Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys

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260	265	270
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Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu		
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Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln		
305	310	315
Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu		
325	330	335
Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu		
340	345	350
Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu		
355	360	365
Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu		
370	375	380
Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg		
385	390	395
Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp		
405	410	415
Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Pro Gln Glu Met		
420	425	430
Leu Lys Arg Met Val Val Tyr Gln Asp Ser Ile Gln Asp Lys Ile Ser		
435	440	445
Gly Asn Met Arg Lys Ala Leu Thr Pro Thr Leu Cys Ser Pro Gln Ser		
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Pro		480

<210> 560

<211> 2409

<212> DNA

<213> Homo Sapiens

<400> 560

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<210> 561
<211> 521
<212> PRT
<213> Homo Sapiens
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<400> 561

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Ile Glu Asn Asp Ala Glu Lys Asp Tyr Leu Tyr Asp Val Leu Arg Met
20 25 30
Tyr His Gln Thr Met Asp Val Ala Val Leu Val Gly Asp Leu Lys Leu
35 40 45
Val Ile Asn Glu Pro Ser Arg Leu Pro Leu Phe Asp Ala Ile Arg Pro
50 55 60
Leu Ile Pro Leu Lys His Gln Val Glu Tyr Asp Gln Leu Thr Pro Arg
65 70 75 80
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
85 90 95
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
100 105 110
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
115 120 125
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
130 135 140
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
145 150 155 160
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
165 170 175
Asp Glu Pro Leu Thr Trp Gln Tyr Val Asp Gln Phe Val Ser Glu Ser
180 185 190
Gly Gly Val Arg Gly Ser Leu Gly Ser Pro Gly Asn Arg Glu Asn Lys
195 200 205
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Glu Lys Lys Val Phe Ile Ser Leu Val Gly Ser Arg Gly Leu Gly Cys
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 Ser Ile Ser Ser Gly Pro Ile Gln Lys Pro Gly Ile Phe Ile Ser His
 225 230 235 240
 Val Lys Pro Gly Ser Leu Ser Ala Glu Val Gly Leu Glu Ile Gly Asp
 245 250 255
 Gln Ile Val Glu Val Asn Gly Val Asp Phe Ser Asn Leu Asp His Lys
 260 265 270
 Glu Ala Val Asn Val Leu Lys Asn Ser Arg Ser Leu Thr Ile Ser Ile
 275 280 285
 Val Ala Ala Ala Gly Arg Glu Leu Phe Met Thr Asp Arg Glu Arg Leu
 290 295 300
 Ala Glu Ala Arg Gln Arg Glu Leu Gln Arg Gln Glu Leu Leu Met Gln
 305 310 315 320
 Lys Arg Leu Ala Met Glu Ser Asn Lys Ile Leu Gln Glu Gln Gln Glu
 325 330 335
 Met Glu Arg Gln Arg Arg Lys Glu Ile Ala Gln Lys Ala Ala Glu Glu
 340 345 350
 Asn Glu Arg Tyr Arg Lys Glu Met Glu Gln Ile Val Glu Glu Glu Glu
 355 360 365
 Lys Phe Lys Lys Gln Trp Glu Glu Asp Trp Gly Ser Lys Glu Gln Leu
 370 375 380
 Leu Leu Pro Lys Thr Ile Thr Ala Glu Val His Pro Val Pro Leu Arg
 385 390 395 400
 Lys Pro Lys Tyr Asp Gln Gly Val Glu Pro Glu Leu Glu Pro Ala Asp
 405 410 415
 Asp Leu Asp Gly Gly Thr Glu Glu Gln Gly Glu Gln Thr Phe Cys Pro
 420 425 430
 Ser Pro Gln Pro Pro Arg Gly Pro Gly Val Ser Thr Ile Ser Lys Pro
 435 440 445
 Val Met Val His Gln Glu Pro Asn Phe Ile Tyr Arg Pro Ala Val Lys
 450 455 460
 Ser Glu Val Leu Pro Gln Glu Met Leu Lys Arg Met Val Val Tyr Gln
 465 470 475 480
 Asp Ser Ile Gln Asp Lys Ile Ser Gly Asn Met Arg Lys Ala Leu Thr
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 Pro Thr Leu Cys Ser Pro Gln Ser Arg Ser Trp Gly Arg Met Ser Gly
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 Ser Tyr Ala Ser Arg Arg Asp Pro
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<210> 562

<211> 1445

<212> DNA

<213> Homo Sapiens

<400> 562

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cagggaatttc aagtatgtgc ccgggtntgt cagggtccag ttgccttntt gacggccccc      1320
ctcagagggg cggcgatgag cactaaatgc ttttttgant attttctat agattttttt      1380
taaaactttt ttttctcct gttccaattg atagctttct tatttaataa attctgtagt      1440
tcacc

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<210> 563
 <211> 192
 <212> PRT
 <213> Homo Sapiens

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<400> 563
Pro Ala Gly Ser Pro Ser Ala Asp Phe Ala Val His Gly Glu Ser Leu
1          5          10          15
Gly Asp Arg His Leu Arg Thr Leu Gln Ile Ser Tyr Asp Ala Leu Lys
20         25         30
Asp Glu Asn Ser Lys Leu Arg Arg Lys Leu Asn Glu Val Gln Ser Phe
35         40         45
Ser Glu Ala Gln Thr Glu Met Val Arg Thr Leu Glu Arg Lys Leu Glu
50         55         60
Ala Lys Met Ile Lys Glu Glu Ser Asp Tyr His Asp Leu Glu Ser Val
65         70         75         80
Val Gln Gln Val Glu Gln Asn Leu Glu Leu Met Thr Lys Arg Ala Val
85         90         95
Lys Ala Glu Asn His Val Val Lys Leu Lys Gln Glu Ile Ser Leu Leu
100        105        110
Gln Ala Gln Val Ser Asn Phe Gln Arg Glu Asn Glu Ala Leu Arg Cys
115        120        125
Gly Gln Gly Ala Ser Leu Thr Val Val Lys Gln Asn Ala Asp Val Ala
130        135        140
Leu Gln Asn Leu Arg Val Val Met Asn Ser Ala Gln Ala Ser Ile Lys
145        150        155        160
Gln Leu Val Ser Gly Ala Glu Thr Leu Asn Leu Val Ala Glu Ile Leu
165        170        175
Lys Ser Ile Asp Arg Ile Ser Glu Val Lys Asp Glu Glu Glu Asp Ser
180        185        190

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<210> 564
 <211> 1226
 <212> DNA
 <213> Homo Sapiens

<400> 564

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 agggcaagga ggagaaggag ggcggcgac ggctggggcg tggcgccgga agccccgaga 120
 agagcccagc cgcgcaggag ctcaaggagc agggcaatcg tctgttcgtg ggcggaaagt 180
 acccggaaggc ggcggcctgc tacggccgcg cgtacccccg gaaccocgtg gtggccgtgt 240
 attacaccaa ccgggcccgtg tgctacctga agatgcagca gcacgagcag gccttggccg 300
 actgcccggcg cgccttggag ctggacgggc agtctgtgaa ggcgcacttc ttcttggggc 360
 agtgccagct ggagatggag agctatgat agggccatcg caatctgcag cgaacttaca 420
 gcctggccaa ggagcagcgg ctgaacttcg gggacgacat cccagcgcgt ctctgaatcg 480
 cgaagaagaa gcgctggaac agcattgagg agcggcgcat ccaccaggag agcagagctgc 540
 actcctacct ctccaggctc attgccgcgg agcgtgagag ggagctggaa gagtgcacgc 600
 gaaaccacga gggatgatgag gacgacagcc acgtccgggc ccagcaggcc tgcattgagg 660
 ccaagcacga caagtacatg gcggacatgg acgagctttt ttctcaggtg gatgagaaga 720
 ggaagaaggc agacatcccc gactacctgt gtggcaagat cagctttgag ctgatgcggg 780
 agcctgtcat cagccccagt ggcattacct acgaccgcaa ggacatcgag gacacctgc 840
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 ccaacttggc tatgaaggag gttattgacg cattcatctc tgagaatggc tgggtggagg 960
 actactgagg ttccctgccc tacctggcgt cctgggtccag gggagccctg ggcagaagcc 1020
 ccgggcccc aaacatagtt tatgtttttg gccacccoga ccgcttcccc caagtctcgc 1080
 tgttggactc tggactgttt cccctctcag categctttt gctggggcgt gattgtcccc 1140
 tttgtggcgt ggaagaagcag gtgaggggtg gctgggctga ggcatttgc gccactatct 1200
 gtgtaataaa atccgtgagc acgaaa 1226

<210> 565
 <211> 303
 <212> PRT
 <213> Homo Sapiens

<400> 565
 Met Lys Gly Lys Glu Glu Lys Glu Gly Gly Ala Arg Leu Gly Ala Gly
 1 5 10 15
 Gly Gly Ser Pro Glu Lys Ser Pro Ser Ala Gln Glu Leu Lys Glu Gln
 20 25 30
 Gly Asn Arg Leu Phe Val Gly Arg Lys Tyr Pro Glu Ala Ala Cys
 35 40 45
 Tyr Gly Arg Ala Ile Thr Arg Asn Pro Leu Val Ala Val Tyr Tyr Thr
 50 55 60
 Asn Arg Ala Leu Cys Tyr Leu Lys Met Gln Gln His Glu Gln Ala Leu
 65 70 75 80
 Ala Asp Cys Arg Arg Ala Leu Glu Leu Asp Gly Gln Ser Val Lys Ala
 85 90 95
 His Phe Phe Leu Gly Gln Cys Gln Leu Glu Met Glu Ser Tyr Asp Glu
 100 105 110
 Ala Ile Ala Asn Leu Gln Arg Ala Tyr Ser Leu Ala Lys Glu Gln Arg
 115 120 125
 Leu Asn Phe Gly Asp Asp Ile Pro Ser Ala Leu Arg Ile Ala Lys Lys
 130 135 140
 Lys Arg Trp Asn Ser Ile Glu Glu Arg Arg Ile His Gln Glu Ser Glu
 145 150 155 160
 Leu His Ser Tyr Leu Ser Arg Leu Ile Ala Ala Glu Arg Glu Arg Glu
 165 170 175
 Leu Glu Glu Cys Gln Arg Asn His Glu Gly Asp Glu Asp Asp Ser His
 180 185 190
 Val Arg Ala Gln Gln Ala Cys Ile Glu Ala Lys His Asp Lys Tyr Met
 195 200 205
 Ala Asp Met Asp Glu Leu Phe Ser Gln Val Asp Glu Lys Arg Lys Lys

210	215	220
Arg Asp Ile Pro Asp Tyr Leu Cys Gly Lys Ile Ser Phe Glu Leu Met		
225	230	235
Arg Glu Pro Cys Ile Thr Pro Ser Gly Ile Thr Tyr Asp Arg Lys Asp		
	245	250
Ile Glu Glu His Leu Gln Arg Val Gly His Phe Asp Pro Val Thr Gly		
	260	265
Ser Pro Leu Thr Gln Glu Gln Phe Ile Pro Asn Leu Ala Met Lys Glu		
	275	280
Val Ile Asp Ala Phe Ile Ser Glu Asn Gly Trp Val Glu Asp Tyr		
	290	300

<210> 566
 <211> 1857
 <212> DNA
 <213> Homo Sapiens

<400> 566	
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tagtggccgg cgggccgctc tcatcccccg taaggagcag agtccctttgt actgaccaag	180
atgagcaaca tctacatcca ggagcctccc acgaatggga aggtttttatt gaaaactaca	240
gctggagata ttgacataga gttgtggtcc aaagaagctc cttaaagcttg cagaaatttt	300
atcccaactt tgtttggaag cttattatga caataccatt ttcatagag ttgtgcctgg	360
tttcatatgc caaggcggag atcctactgg cacaggaggt ggtggagagt ctatctatgg	420
agcgccattc aaagatgaat ttcattcacg gttgcgtttt aatcggagag gactggttgc	480
catggcaaat gctggttctc atgataatgg caccacttt ttcttcacac tgggtcgagc	540
agatgaactt aacaataagc ataccatctt tggaaagggt acaggggata cagtataata	600
catgttgcca ctgtcagaag tagacattga tgatgacgaa agaccacata atccacacaa	660
aataaaaaagc tgtgaggttt tgtttaatcc ttttgatgac atcattccaa gggaaattaa	720
aaggctgaaa aaagagaaac cagaggagga agtaaaagaa ttgaaaccca aaggcacaaa	780
aaattttagt ttactttcat ttggagagga agctgaggaa gaagaagagg aagtaaatcg	840
agttagtcag agcatgaagg gcaaaagcaa aagtagtcat gacttgctta aggatgatcc	900
acatctcagt tctgttccag ttgtagaaag tgaaaaagggt gatgcaccag atttagttga	960
tgatggagaa gatgaaagt cagagcatga tgaatatatt gatggtgatg aaaagaacct	1020
gatgagagaa agaattgcc aaaaattaaa aaaggacaca agtgcgaatg ttaaatcagc	1080
tggagaagga gaagtggaga agaaatcagt cagccgcagt gaagagctca gaaaagaagc	1140
aagacaatta aaacgggaac tcttagcagc aaaaacaaaa aaagtagaaa atgcagcaaa	1200
acaagcagaa aaagaagtg aagaggaaga agccctcca gatgggtgctg ttgccgaata	1260
cagaagagaa aagcaaaagt atgaagcttt gaggaagcaa cagtcaaaga agggaaacttc	1320
ccgggaagat cagacccttg cactgctgaa ccagtttaaa tctaaactca ctcaagcaat	1380
tgctgaaaca cctgaaaatg acattcctga aacagaagta gaagatgatg aaggatggat	1440
gtcacatgta cttcagtttg aggataaaaag cagaaaagtg aaagatgcaa gcatgcaaga	1500
ctcagatata ttgaaatct atgatcctcg gaatccagtg aataaaaagaa ggaggggaaga	1560
aagcaaaaag ctgatgagag agaaaaaaga aagaagataa aatgagaata atgataacca	1620
gaacttgcgt gaaatgtgcc tacaatggcc ttgtaacagc cattgttccc aacagcatca	1680
cttaggggtg tgaagaagag tatttttgaa cctgttgtct ggttttgaaa aacaattatc	1740
ttgttttgca aattgtggaa tgatgtaagc aaatgccttt ggttactggt acatgtgttt	1800
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<210> 567
 <211> 372
 <212> PRT
 <213> Homo Sapiens

<400> 567

Met	Ala	Asn	Ala	Gly	Ser	His	Asp	Asn	Gly	Thr	His	Phe	Phe	Phe	Thr
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Leu	Gly	Arg	Ala	Asp	Glu	Leu	Asn	Asn	Lys	His	Thr	Ile	Phe	Gly	Lys
			20					25					30		
Val	Thr	Gly	Asp	Thr	Val	Tyr	Asn	Met	Leu	Arg	Leu	Ser	Glu	Val	Asp
		35					40					45			
Ile	Asp	Asp	Asp	Glu	Arg	Pro	His	Asn	Pro	His	Lys	Ile	Lys	Ser	Cys
	50					55					60				
Glu	Val	Leu	Phe	Asn	Pro	Phe	Asp	Asp	Ile	Ile	Pro	Arg	Glu	Ile	Lys
65					70					75					80
Arg	Leu	Lys	Lys	Glu	Lys	Pro	Glu	Glu	Glu	Val	Lys	Lys	Leu	Lys	Pro
				85					90					95	
Lys	Gly	Thr	Lys	Asn	Phe	Ser	Leu	Leu	Ser	Phe	Gly	Glu	Glu	Ala	Glu
			100					105					110		
Glu	Glu	Glu	Glu	Glu	Val	Asn	Arg	Val	Ser	Gln	Ser	Met	Lys	Gly	Lys
		115						120				125			
Ser	Lys	Ser	Ser	His	Asp	Leu	Leu	Lys	Asp	Asp	Pro	His	Leu	Ser	Ser
	130					135					140				
Val	Pro	Val	Val	Glu	Ser	Glu	Lys	Gly	Asp	Ala	Pro	Asp	Leu	Val	Asp
145					150					155					160
Asp	Gly	Glu	Asp	Glu	Ser	Ala	Glu	His	Asp	Glu	Tyr	Ile	Asp	Gly	Asp
				165					170					175	
Glu	Lys	Asn	Leu	Met	Arg	Glu	Arg	Ile	Ala	Lys	Lys	Leu	Lys	Lys	Asp
			180					185					190		
Thr	Ser	Ala	Asn	Val	Lys	Ser	Ala	Gly	Glu	Gly	Glu	Val	Glu	Lys	Lys
	195						200					205			
Ser	Val	Ser	Arg	Ser	Glu	Glu	Leu	Arg	Lys	Glu	Ala	Arg	Gln	Leu	Lys
	210				215						220				
Arg	Glu	Leu	Leu	Ala	Ala	Lys	Gln	Lys	Lys	Val	Glu	Asn	Ala	Ala	Lys
225					230					235					240
Gln	Ala	Glu	Lys	Arg	Ser	Glu	Glu	Glu	Glu	Ala	Pro	Pro	Asp	Gly	Ala
				245					250					255	
Val	Ala	Glu	Tyr	Arg	Arg	Glu	Lys	Gln	Lys	Tyr	Glu	Ala	Leu	Arg	Lys
		260						265					270		
Gln	Gln	Ser	Lys	Lys	Gly	Thr	Ser	Arg	Glu	Asp	Gln	Thr	Leu	Ala	Leu
	275						280					285			
Leu	Asn	Gln	Phe	Lys	Ser	Lys	Leu	Thr	Gln	Ala	Ile	Ala	Glu	Thr	Pro
	290					295					300				
Glu	Asn	Asp	Ile	Pro	Glu	Thr	Glu	Val	Glu	Asp	Asp	Glu	Gly	Trp	Met
305				310						315					320
Ser	His	Val	Leu	Gln	Phe	Glu	Asp	Lys	Ser	Arg	Lys	Val	Lys	Asp	Ala
				325						330				335	
Ser	Met	Gln	Asp	Ser	Asp	Thr	Phe	Glu	Ile	Tyr	Asp	Pro	Arg	Asn	Pro
		340						345					350		
Val	Asn	Lys	Arg	Arg	Arg	Glu	Glu	Ser	Lys	Lys	Leu	Met	Arg	Glu	Lys
	355					360						365			
Lys	Glu	Arg	Arg												
	370														

<210> 568

<211> 1537

<212> DNA

<213> Homo Sapiens

<400> 568
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gtcagccctg gttcgccggc ttctgggtct ttgaacagcc gcgatgtcga tcttcacccc 120
caccacccag atccgcctaa ccaatgtggc cgtggtacgg atgaagcgtg ccgggaagcg 180
cttcgaaatc gcctgctaca aaaacaaggt cgctgggtgg cggagcggcg tggaaaaaga 240
cctcgatgaa gttctgcaga cccactcagt gtttgtaaat gtttctaaag gtcagggtgc 300
caaaaaggaa gatctcatca gtgcgtttgg aacagatgac caaactgaaa tctgtaagca 360
gattttgact aaaggagaag ttcaagatc agataaagaa agacacacac aactggagca 420
gatgtttagg gacattgcaa ctattgtggc agacaaatgt gtgaatcctg aaacaaagag 480
accatacacc gtgatcctta ttgagagagc catgaaggac atccactatt cgggtgaaaac 540
caacaagagt acaaaacagc aggcctttgga agtgataaag cagttaaaag agaaaaatgaa 600
gatagaacgt gctcacatga agcttcgggt catccttcca gtcaatgaag caagaagactg 660
aaagaaaaag tcaagccact gatcaaggto atagaaaagt aagattatgg ccaacagtta 720
gaaatcgat gtctgattga cccgggctgc ttccgagaaa ttgatgagct aataaaaaag 780
gaaactaaag gcaaaaggttc ttgggaagta ctcaatctga aagatgtaga agaaggagat 840
gagaaattg aatgacacc atcaatctct tcacctctaa aacactaaag tgtttccgtt 900
tcgcagcgca ctgtttcatg tctgtggtct gccaaatact tgcttaaaact atttgacatt 960
ttctatcttt gtgttaacag ttgacacagc aaggctttcc tacataagta taataatgtg 1020
ggaatgattt ggttttaatt ataaactggg gtctaaatcc taaagcaaaa ttgaaactcc 1080
aagatgcгаа gtccagagtg gcattttgct actctgtctc atgccttgat agctttccaa 1140
aatgaaagtt acttgangca gctcttggtg gtgaaaagtt attgtacag tagagtaaga 1200
ttattagggg tatgtctata caacaaaagg ggggggtctt cctaaaaaag aaaaactatg 1260
atgcttcatt tctacttaat ggaacttggt ttctgagggt cattatggta tctgaatgta 1320
aagcttgat gatgttcttg attatttgag gaacagatat aggaaaattg tgcgggaatt 1380
acotttcatt gaacatgctg ccataaatta ggttattttt ggttaaaaaa taaaagtcaa 1440
ttatttttaa tttttaaagt ttataatata tattaatata ggtaaaattg tatgtaatca 1500
ataaaaccaa ttttatgttt attaaactta aaaaaaa 1537

<210> 569

<211> 210

<212> PRT

<213> Homo Sapiens

<400> 569
Ala Ala Arg Arg Ser Val Val Thr Ala Arg Arg Trp Trp Pro Ser Gly
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Trp Thr Ala Arg Val Ser Pro Gly Ser Pro Ala Ser Gly Ser Leu Asn
20 25 30
Ser Arg Asp Val Asp Leu His Pro His Gln Pro Asp Pro Pro Asn Gln
35 40 45
Cys Gly Arg Gly Thr Asp Glu Ala Cys Arg Glu Ala Leu Arg Asn Arg
50 55 60
Leu Leu Gln Lys Gln Val Val Gly Trp Arg Ser Gly Val Glu Lys Asp
65 70 75 80
Leu Asp Glu Val Leu Gln Thr His Ser Val Phe Val Asn Val Ser Lys
85 90 95
Gly Gln Val Ala Lys Lys Glu Asp Leu Ile Ser Ala Phe Gly Thr Asp
100 105 110
Asp Gln Thr Glu Ile Cys Lys Gln Ile Leu Thr Lys Gly Glu Val Gln
115 120 125
Val Ser Asp Lys Glu Arg His Thr Gln Leu Glu Gln Met Phe Arg Asp
130 135 140
Ile Ala Thr Ile Val Ala Asp Lys Cys Val Asn Pro Glu Thr Lys Arg
145 150 155 160
Pro Tyr Thr Val Ile Leu Ile Glu Arg Ala Met Lys Asp Ile His Tyr

165 170 175
 Ser Val Lys Thr Asn Lys Ser Thr Lys Gln Gln Ala Leu Glu Val Ile
 180 185 190
 Lys Gln Leu Lys Glu Lys Met Lys Ile Glu Arg Ala His Met Lys Leu
 195 200 205
 Arg Phe
 210

<210> 570
 <211> 1211
 <212> DNA
 <213> Homo Sapiens

<400> 570
 accatcttttg gaaaggtttac aggggtatatac agtatataac atgttgcgcac tgtcagaagt 60
 agacattgat gatgacgaaa gaccacataa tccacacaaa ataaaaagct gtgagggtttt 120
 gtttaattcct ttgatgaca tcattccaag ggaaattaaa aggcgtgaaaa aagagaaacc 180
 agaggaggaa gttaaagaat tgaaccccaa aggcacaaaa aatttttagtt tacttttcatt 240
 tggagaggaa gctgagggaag aagaggagga agtaaatcga gtttagtcaga gcatgaagg 300
 caaaagcaaa agtagtcatg acttgcttaa ggatgatcca catctcagtt ctgttccagt 360
 tgtagaaaagt gaaaaagggtg atgcagcaga tttagttgat gatggagaag atgaaagtgc 420
 agagcatgat gaatatattg atggtgatga aaagaacctg atgagagaaa gaattgccaa 480
 aaaattaaaa aaggacacaa gtgcgaatgt taaatcagct ggagaaggag aagtggagaa 540
 gaaatcagtc agccgcagtg aagagctcag aaaagaagca agacaattaa aacgggaact 600
 cttagcagca gaacaaaaaaa aagtagaaaa tgcagcaaaa caagcagaaa aaagaagtga 660
 agaggaagaa gccccctccag atggtgctgt tgccgaatac agaagagaaa agcaaaagta 720
 tgaagctctg aggaagcaac agtcaaagaa gggaaacttc cgggaagatc agacccttgc 780
 actgctgaac cagttttaaact ctaaactcac tcaagcaatt gctgaaacgc ctgaaaatga 840
 cattcctgaa acagaagtag aagatgatga aggatggatg tcacatgtac ttcagtttga 900
 ggataaaaagc agaaaagtga aagatgcaag catgcaagac tcagatacat ttgaaatcta 960
 tgatctcgg aatccagtg ataaaagaag gagggaagaa agcaaaaagc tgatgagaga 1020
 gaaaaaagaa agaagataaa atgagaataa tgataaccag aacttgctgg aaatgtgcct 1080
 acaatggcct tgtaacagcc attgttccca acagcatcac ttagggtgtg gaaaagaagt 1140
 atttttgaa cttgtgtctg gttttgaaaa acaattatct tgttttgcaa attgtggaat 1200
 gatgtaagca a 1211

<210> 571
 <211> 354
 <212> PRT
 <213> Homo Sapiens

<400> 571
 Pro Ser Leu Glu Arg Leu Gln Gly Tyr Thr Val Tyr Asn Met Leu Arg
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 Leu Ser Glu Val Asp Ile Asp Asp Asp Glu Arg Pro His Asn Pro His
 20 25 30
 Lys Ile Lys Ser Cys Glu Val Leu Phe Asn Pro Phe Asp Asp Ile Ile
 35 40 45
 Pro Arg Glu Ile Lys Arg Leu Lys Lys Glu Lys Pro Glu Glu Glu Val
 50 55 60
 Lys Lys Leu Lys Pro Lys Gly Thr Lys Asn Phe Ser Leu Leu Ser Phe
 65 70 75 80
 Gly Glu Glu Ala Glu Glu Glu Glu Glu Glu Val Asn Arg Val Ser Gln
 85 90 95
 Ser Met Lys Gly Lys Ser Lys Ser Ser His Asp Leu Leu Lys Asp Asp

100	105	110
Pro His Leu Ser Ser Val	Pro Val Val Glu Ser Glu Lys Gly Asp Ala	
115	120	125
Ala Asp Leu Val Asp Asp Gly Glu Asp Glu Ser Ala Glu His Asp Glu		
130	135	140
Tyr Ile Asp Gly Asp Glu Lys Asn Leu Met Arg Glu Arg Ile Ala Lys		
145	150	155
Lys Leu Lys Lys Asp Thr Ser Ala Asn Val Lys Ser Ala Gly Glu Gly		
165	170	175
Glu Val Glu Lys Lys Ser Val Ser Arg Ser Glu Glu Leu Arg Lys Glu		
180	185	190
Ala Arg Gln Leu Lys Arg Glu Leu Leu Ala Ala Glu Gln Lys Lys Val		
195	200	205
Glu Asn Ala Ala Lys Gln Ala Glu Lys Arg Ser Glu Glu Glu Glu Ala		
210	215	220
Pro Pro Asp Gly Ala Val Ala Glu Tyr Arg Arg Glu Lys Gln Lys Tyr		
225	230	235
Glu Ala Leu Arg Lys Gln Gln Ser Lys Lys Gly Thr Ser Arg Glu Asp		
245	250	255
Gln Thr Leu Ala Leu Leu Asn Gln Phe Lys Ser Lys Leu Thr Gln Ala		
260	265	270
Ile Ala Glu Thr Pro Glu Asn Asp Ile Pro Glu Thr Glu Val Glu Asp		
275	280	285
Asp Glu Gly Trp Met Ser His Val Leu Gln Phe Glu Asp Lys Ser Arg		
290	295	300
Lys Val Lys Asp Ala Ser Met Gln Asp Ser Asp Thr Phe Glu Ile Tyr		
305	310	315
Asp Pro Arg Asn Pro Val Asn Lys Arg Arg Glu Glu Ser Lys Lys		
325	330	335
Leu Met Arg Glu Lys Lys Glu Arg Ile Leu Pro Val Asn Glu Gly		
340	345	350
Lys Asn		

<210> 572
 <211> 604
 <212> DNA
 <213> Homo Sapiens

<400> 572	
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tccctttagc aacagggccc ccaagaagct cccgttcatt cacccttacc ttggccccca	120
ggttggaccc ccaaaggctc ccttacccca aagtgggtgg ttgaataaat cttctcagtt	180
ccctggctcc caaggcccat tgaagaagat tgtacaaggc gtgcctcaag taccccgagt	240
ggaaacagaa gcacctgcct cacttcaagc cgtggctgca cccggagcag agcccgttgc	300
cgagcctggc gctgtcggag ctgtcgtgac agcatgcgga ctcactggag aacatcgacg	360
agagcgcggt ggccgagagc agagaggagc ggatggggcg cgcggggcgc gagggcagcg	420
acgacgacac cttcacctga gcccgacacc cttcagggac ggagacagga ccggggcagc	480
cctggggcgg cggccgctcc tgcaatttct cccctcccc acccggcacc tgggtggcacc	540
gggcccaggcc caggcgggtg ctgcagcctg gctggacaga gcccaataaa cggatcccac	600
agcc	604

<210> 573
 <211> 195
 <212> PRT

<213> Homo Sapiens

<400> 573

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Leu Arg Gln Lys Ile Leu Val Pro Thr Phe Cys Ser Ile Pro Lys Gly
 1           5           10           15
Leu Thr Phe Ile Pro Phe Ser Asn Arg Ala Pro Lys Lys Leu Pro Phe
           20           25           30
Ile His Pro Tyr Leu Gly Pro Gln Val Gly Pro Pro Lys Ala Pro Leu
           35           40           45
Pro Gln Ser Gly Trp Leu Asn Lys Ser Ser Gln Phe Pro Gly Ser Gln
           50           55           60
Gly Pro Leu Lys Lys Ile Val Gln Gly Val Pro Gln Val Pro Arg Val
65           70           75           80
Glu Thr Glu Ala Pro Ala Ser Leu Gln Ala Val Ala Ala Pro Gly Ala
           85           90           95
Glu Pro Val Ala Glu Pro Gly Ala Val Gly Ala Val Gly Ala Ala Cys
          100          105          110
Gly Leu Thr Gly Glu His Arg Arg Glu Arg Gly Gly Arg Glu Gln Arg
          115          120          125
Gly Ala Asp Gly Arg Arg Gly Arg Arg Gly Gln Arg Arg Arg His Leu
          130          135          140
His Leu Ser Pro His Arg Phe Arg Asp Gly Asp Arg Thr Gly Arg Ala
          145          150          155          160
Leu Gly Arg Arg Pro Leu Leu His Phe Leu Pro Ser Pro Thr Arg His
          165          170          175
Leu Val Ala Pro Gly Gln Ala Gln Ala Gly Ala Ala Ala Trp Leu Asp
          180          185          190
Arg Ala Gln
          195

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<210> 574

<211> 742

<212> DNA

<213> Homo Sapiens

<400> 574

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ccccaccagg cccctcgat gcagagacag aggtcgggtgc tgaccgctgc acgtcgactg      60
cctaccaggga gcagaggccc caggtggagc aagttggcaa agtcgctcct ctctccccag      120
ggctgccggc aatggggggg cctggccccg gccctgtga ggaccccgcg ggtgctgggg      180
gagcaggtgc agggggctcc gagccctgg tgactgtcac cgtgcagtgc gccttcacag      240
tggccctgag ggcaggaaga ggagccgacc tgtccagcct gcgggcactg ctggggccaag      300
ccttccttca ccaggcccag cttgggcaat tcagttacct agccccaggg gaggacgggc      360
actgggtccc catccccgag gaggagtcgc tgcagagggc ctggcaggac gcagctgcct      420
gccccagggg gctgcagctg cagtgcaggg gagccggggg tcggccgggtc ctttaccagg      480
tggtggccca gcacagatac tccgccagg ggccagagga cctgggcttc cgacaggggg      540
acacggtgga cgtcctgtgt gaagtggacc aggcattggt ggaggggcac tgtgacggcc      600
gcacggtgat cttccccaa gttctcgttg tccccggcg ccctcggtat tcaggagccc      660
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<210> 575

<211> 232

<212> PRT

<213> Homo Sapiens

<400> 575

His Gln Gly Pro Leu Asp Ala Glu Thr Glu Val Gly Ala Asp Arg Cys
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 Thr Ser Thr Ala Tyr Gln Glu Gln Arg Pro Gln Val Glu Gln Val Gly
 20 25 30
 Lys Val Ala Pro Leu Ser Pro Gly Leu Pro Ala Met Gly Gly Pro Gly
 35 40 45
 Pro Gly Pro Cys Glu Asp Pro Ala Gly Ala Gly Gly Ala Gly Ala Gly
 50 55 60
 Gly Ser Glu Pro Leu Val Thr Val Thr Val Gln Cys Ala Phe Thr Val
 65 70 75 80
 Ala Leu Arg Ala Gly Arg Gly Ala Asp Leu Ser Ser Leu Arg Ala Leu
 85 90 95
 Leu Gly Gln Ala Phe Leu His Gln Ala Gln Leu Gly Gln Phe Ser Tyr
 100 105 110
 Leu Ala Pro Gly Glu Asp Gly His Trp Val Pro Ile Pro Glu Glu Glu
 115 120 125
 Ser Leu Gln Arg Ala Trp Gln Asp Ala Ala Cys Pro Arg Gly Leu
 130 135 140
 Gln Leu Gln Cys Arg Gly Ala Gly Gly Arg Pro Val Leu Tyr Gln Val
 145 150 155 160
 Val Ala Gln His Arg Tyr Ser Ala Gln Gly Pro Glu Asp Leu Gly Phe
 165 170 175
 Arg Gln Gly Asp Thr Val Asp Val Leu Cys Glu Val Asp Gln Ala Trp
 180 185 190
 Leu Glu Gly His Cys Asp Gly Arg Ile Gly Ile Phe Pro Lys Cys Phe
 195 200 205
 Val Val Pro Ala Gly Pro Arg Met Ser Gly Ala Pro Gly Arg Leu Pro
 210 215 220
 Arg Ser Gln Gln Gly Asp Gln Pro
 225 230

<210> 576

<211> 1087

<212> DNA

<213> Homo Sapiens

<400> 576

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 ttcaaaacac cggttaaccaa agtcacaaat catcctagta ataaagttaa atcagaccca 180
 caacgaatga atgaacagcc acgtcagctt ttctgggaga agaggctaca aggacttagt 240
 gcatcagatg taacagaaca aattataaaa accatggaac tacccaaagg tcttcaagga 300
 gttggtccag gtagcaatga tgagaccctt ttatctgtgt ttgccagtgc ttgtcacaca 360
 agctctgcgc caatcacagg gcaagtctcc gctgctgtgg aaaagaaccc tgcgttttgg 420
 cttaacacat ctcaaccct ctgcaaagct tttattgtca cagatgaaga catcaggaaa 480
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 aacaaaaaat ttccactgg cttttgcctg taagaaaaaa aatgtaccgc agcacataga 720
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 ttcaaaaaat catgttttatt ttgagtccca ggacttaaaa ttagtctttt gtaatatcaa 840
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<210> 577
<211> 200
<212> PRT
<213> Homo Sapiens

<400> 577
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Pro Ile Arg Gln Thr Ala Ser Ile Phe Lys Gln Pro Val Thr Lys Val
35 40 45
Thr Asn His Pro Ser Asn Lys Val Lys Ser Asp Pro Gln Arg Met Asn
50 55 60
Glu Gln Pro Arg Gln Leu Phe Trp Glu Lys Arg Leu Gln Gly Leu Ser
65 70 75 80
Ala Ser Asp Val Thr Glu Gln Ile Ile Lys Thr Met Glu Leu Pro Lys
85 90 95
Gly Leu Gln Gly Val Gly Pro Gly Ser Asn Asp Glu Thr Leu Leu Ser
100 105 110
Ala Val Ala Ser Ala Leu His Thr Ser Ser Ala Pro Ile Thr Gly Gln
115 120 125
Val Ser Ala Ala Val Glu Lys Asn Pro Ala Val Trp Leu Asn Thr Ser
130 135 140
Gln Pro Leu Cys Lys Ala Phe Ile Val Thr Asp Glu Asp Ile Arg Lys
145 150 155 160
Gln Glu Glu Arg Val Gln Gln Val Arg Lys Lys Leu Glu Glu Ala Leu
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Met Ala Asp Ile Leu Ser Arg Ala Ala Asp Thr Glu Glu Met Asp Ile
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Glu Met Asp Ser Gly Asp Glu Ala
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<210> 578
<211> 2569
<212> DNA
<213> Homo Sapiens

<400> 578
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tgtttctcat ataaaatgacc ttccagactt ttatgttcaa ctaatagaag atgaagctga 180
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tcttaactgg tataatccag aaaaaaaaaa gataagagct tatgccactg tgatagatgg 780

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tggagatcct tgtatagtaa gatacagaga agatggacat tattataggg cacttatcac      960
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ctgtgtggac ccaaaagcac tctgggccat tcttcttgaa cttctgtcgg ttcctatgca     1080
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<210> 579

<211> 752

<212> PRT

<213> Homo Sapiens

<400> 579

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 20          25          30
Pro Gly Phe Lys Thr Thr Val Tyr Val Ser His Ile Asn Asp Leu Ser
 35          40          45
Asp Phe Tyr Val Gln Leu Ile Glu Asp Glu Ala Glu Ile Ser His Leu
 50          55          60
Ser Glu Arg Leu Asn Ser Val Lys Thr Arg Pro Glu Tyr Tyr Val Gly
 65          70          75          80
Pro Pro Leu Gln Arg Gly Asp Met Ile Cys Ala Val Phe Pro Glu Asp
 85          90          95
Asn Leu Trp Tyr Arg Ala Val Ile Lys Glu Gln Gln Pro Asn Asp Leu
100         105         110
Leu Ser Val Gln Phe Ile Asp Tyr Gly Asn Val Ser Val Val His Thr
115         120         125
Asn Lys Ile Gly Arg Leu Asp Leu Val Asn Ala Ile Leu Pro Gly Leu
130         135         140

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Cys Ile His Cys Ser Leu Gln Gly Phe Glu Val Pro Asp Asn Lys Asn
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 165 170 175
 Ile Arg Cys Glu Phe Val Lys Phe Gln Asp Arg Trp Glu Val Ile Leu
 180 185 190
 Ala Asp Glu His Gly Ile Ile Ala Asp Asp Met Ile Ser Arg Tyr Ala
 195 200 205
 Leu Ser Glu Lys Ser Gln Val Glu Leu Ser Thr Gln Val Ile Lys Ser
 210 215 220
 Ala Ser Ser Lys Ser Val Asn Lys Ser Asp Ile Asp Thr Ser Val Phe
 225 230 235 240
 Leu Asn Trp Tyr Asn Pro Glu Lys Lys Met Ile Arg Ala Tyr Ala Thr
 245 250 255
 Val Ile Asp Gly Pro Glu Tyr Phe Trp Cys Gln Phe Ala Asp Thr Glu
 260 265 270
 Lys Leu Gln Cys Leu Glu Val Glu Val Gln Thr Ala Gly Glu Gln Val
 275 280 285
 Ala Asp Arg Arg Asn Cys Ile Pro Cys Pro Tyr Ile Gly Asp Pro Cys
 290 295 300
 Ile Val Arg Tyr Arg Glu Asp Gly His Tyr Tyr Arg Ala Leu Ile Thr
 305 310 315 320
 Asn Ile Cys Glu Asp Tyr Leu Val Ser Val Arg Leu Val Asp Phe Gly
 325 330 335
 Asn Ile Glu Asp Cys Val Asp Pro Lys Ala Leu Trp Ala Ile Pro Ser
 340 345 350
 Glu Leu Leu Ser Val Pro Met Gln Ala Phe Pro Cys Cys Leu Ser Gly
 355 360 365
 Phe Asn Ile Ser Glu Gly Leu Cys Ser Gln Glu Gly Asn Asp Tyr Phe
 370 375 380
 Tyr Glu Ile Ile Thr Glu Asp Val Leu Glu Ile Thr Ile Leu Glu Ile
 385 390 395 400
 Arg Arg Asp Val Cys Asp Ile Pro Leu Ala Ile Val Asp Leu Lys Ser
 405 410 415
 Lys Gly Lys Ser Ile Asn Glu Lys Met Glu Lys Tyr Ser Lys Thr Gly
 420 425 430
 Ile Lys Ser Ala Leu Pro Tyr Glu Asn Ile Asp Ser Glu Ile Lys Gln
 435 440 445
 Thr Leu Gly Ser Tyr Asn Leu Asp Val Gly Leu Lys Lys Leu Ser Asn
 450 455 460
 Lys Ala Val Gln Asn Lys Ile Tyr Met Glu Gln Gln Thr Asp Glu Leu
 465 470 475 480
 Ala Glu Ile Thr Glu Lys Asp Val Asn Ile Ile Gly Thr Lys Pro Ser
 485 490 495
 Asn Phe Arg Asp Pro Lys Thr Asp Asn Ile Cys Glu Gly Phe Glu Asn
 500 505 510
 Pro Cys Lys Asp Lys Ile Asp Thr Glu Glu Leu Glu Gly Glu Leu Glu
 515 520 525
 Cys His Leu Val Asp Lys Ala Glu Phe Asp Asp Lys Tyr Leu Ile Thr
 530 535 540
 Gly Phe Asn Thr Leu Leu Pro His Ala Asn Glu Thr Lys Glu Ile Leu
 545 550 555 560
 Glu Leu Asn Ser Leu Glu Val Pro Leu Ser Pro Asp Asp Glu Ser Lys
 565 570 575
 Glu Phe Leu Glu Leu Glu Ser Ile Glu Leu Gln Asn Ser Leu Val Val

580 585 590
 Asp Glu Glu Lys Gly Glu Leu Ser Pro Val Pro Pro Asn Val Pro Leu
 595 600 605
 Ser Gln Glu Cys Val Thr Lys Gly Ala Met Glu Leu Phe Thr Leu Gln
 610 615 620
 Leu Pro Leu Ser Cys Glu Ala Glu Lys Gln Pro Glu Leu Glu Leu Pro
 625 630 635 640
 Thr Ala Gln Leu Pro Leu Asp Asp Lys Met Asp Pro Leu Ser Leu Gly
 645 650 655
 Val Ser Gln Lys Ala Gln Glu Ser Met Cys Thr Glu Asp Met Arg Lys
 660 665 670
 Ser Ser Cys Val Glu Ser Phe Asp Asp Gln Arg Arg Met Ser Leu His
 675 680 685
 Leu His Gly Ala Asp Cys Asp Pro Lys Thr Gln Asn Glu Met Asn Ile
 690 695 700
 Cys Glu Glu Glu Phe Val Glu Tyr Lys Asn Arg Asp Ala Ile Ser Ala
 705 710 715 720
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<210> 580
 <211> 2077
 <212> DNA
 <213> Homo Sapiens

<400> 580
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 gaggtgactc gagcagtgat gaggataaag aataacatga aactcctgtg gaagtagaac 180
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<210> 581

<211> 312

<212> PRT

<213> Homo Sapiens

<400> 581

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			20					25					30		
Ser	Asn	Ser	Ser	Asp	Ser	Lys	Ser	Gln	Ser	Arg	Arg	His	Leu	Ser	Ala
			35					40				45			
Lys	Glu	Arg	Arg	Glu	Met	Lys	Lys	Lys	Leu	Pro	Ser	Asp	Ser	Gly	
			50			55					60				
Asp	Leu	Glu	Ala	Leu	Glu	Gly	Lys	Asp	Lys	Glu	Lys	Glu	Ser	Thr	Val
					70					75				80	
His	Ile	Glu	Thr	His	Gln	Asn	Thr	Ser	Lys	Asn	Val	Ala	Ala	Val	Gln
					85				90					95	
Pro	Met	Lys	Arg	Gly	Gln	Lys	Ser	Lys	Met	Lys	Lys	Met	Lys	Glu	Lys
			100					105						110	
Tyr	Lys	Asp	Gln	Asp	Glu	Glu	Asp	Arg	Glu	Leu	Ile	Met	Lys	Leu	Leu
			115				120					125			
Gly	Ser	Ala	Gly	Ser	Asn	Lys	Glu	Glu	Lys	Gly	Lys	Lys	Gly	Lys	Lys
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Gly	Lys	Thr	Lys	Asp	Glu	Pro	Val	Lys	Lys	Gln	Pro	Gln	Lys	Pro	Arg
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			165					170						175	
Glu	Val	Ile	Thr	His	Glu	Leu	Gln	Asp	Phe	Ala	Val	Asp	Asp	Pro	His
			180					185					190		
Asp	Asp	Lys	Glu	Glu	Gln	Asp	Leu	Asp	Gln	Gln	Gly	Asn	Glu	Glu	Asn
			195				200					205			
Leu	Phe	Asp	Ser	Leu	Thr	Gly	Gln	Pro	His	Pro	Glu	Asp	Val	Leu	Leu
			210			215					220				
Phe	Ala	Ile	Pro	Ile	Cys	Ala	Pro	Tyr	Thr	Thr	Met	Thr	Asn	Tyr	Lys
			225		230					235				240	
Tyr	Lys	Val	Lys	Leu	Thr	Pro	Gly	Val	Gln	Lys	Lys	Gly	Lys	Ala	Ala
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Lys	Thr	Ala	Leu	Asn	Ser	Phe	Met	His	Ser	Lys	Glu	Ala	Thr	Ala	Arg
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Ile	Pro	Gly	Lys	Val	Lys	Ser	Val	Cys	Thr	Gln	Ser	Ser	Glu	Arg	Lys
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<210> 582
<211> 3309
<212> DNA
<213> Homo Sapiens

<400> 582

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<210> 583

<211> 872

<212> PRT

<213> Homo Sapiens

<400> 583

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Arg	Ala	Gly	Gly	Ile	Glu	Thr	Ile	Ala	Asn	Glu	Phe	Ser	Asp	Arg	Cys
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Thr	Pro	Ser	Val	Ile	Ser	Phe	Gly	Ser	Lys	Asn	Arg	Thr	Ile	Gly	Val
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His	Phe	Cys	Ala	Glu	Phe	Lys	Thr	Lys	Tyr	Lys	Leu	Asp	Ala	Lys	Ser
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Lys	Ile	Arg	Ala	Leu	Leu	Arg	Leu	Tyr	Gln	Glu	Cys	Glu	Lys	Leu	Lys
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Glu	Cys	Leu	Asn	Gln	Arg	Pro	Pro	Glu	Asn	Pro	Asp	Thr	Asp	Lys	Asn						
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Glu	Gln	Asp	His	Gln	Asn	Phe	Leu	Arg	Leu	Leu	Thr	Glu	Thr	Glu	Asp						
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Gln	Glu	Ala	Glu	Glu	Arg	Pro	Lys	Met	Phe	Glu	Glu	Leu	Gly	Gln	Arg						
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Val Asn Glu Val Met Glu Trp Met Asn Asn Val Met Asn Ala Gln Ala
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 Lys Lys Ser Leu Asp Gln Asp Pro Val Val Arg Ala Gln Glu Ile Lys
 785 790 795 800
 Thr Lys Ile Lys Glu Leu Asn Asn Thr Cys Glu Pro Val Val Thr Gln
 805 810 815
 Pro Lys Pro Lys Ile Glu Ser Pro Lys Leu Glu Arg Thr Pro Asn Gly
 820 825 830
 Pro Asn Ile Asp Lys Lys Glu Glu Asp Leu Glu Asp Lys Asn Asn Phe
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<210> 584
 <211> 2918
 <212> DNA
 <213> Homo Sapiens

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<210> 585

<211> 687

<212> PRT

<213> Homo Sapiens

<400> 585

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Ala Ser Tyr Thr Trp Gln Phe Glu Ala Arg Lys Ala Gln Ile Leu Lys
35 40 45
Cys Met Glu Cys Gly Ser Ser His Asp Thr Leu Gln Gln Leu Thr Ala
50 55 60
His Met Met Val Thr Gly His Phe Leu Lys Val Thr Ser Ala Ser
65 70 75 80
Lys Lys Gly Lys Gln Leu Val Leu Asp Pro Val Val Glu Glu Lys Ile
85 90 95
Gln Ser Ile Pro Leu Pro Pro Thr Thr His Thr Arg Leu Pro Ala Ser
100 105 110
Ser Ile Lys Lys Gln Pro Asp Ser Pro Ala Gly Ser Thr Ser Glu
115 120 125
Glu Lys Lys Glu Pro Glu Lys Glu Lys Pro Pro Val Ala Gly Asp Ala
130 135 140
Glu Lys Ile Lys Glu Glu Ser Glu Asp Ser Leu Glu Lys Phe Glu Pro
145 150 155 160
Ser Thr Leu Tyr Pro Tyr Leu Arg Glu Glu Asp Leu Asp Asp Ser Pro
165 170 175
Lys Gly Gly Leu Asp Ile Leu Lys Ser Leu Glu Asn Thr Val Ser Thr
180 185 190
Ala Ile Ser Lys Ala Gln Asn Gly Ala Pro Ser Trp Gly Gly Tyr Pro
195 200 205
Ser Ile His Ala Ala Tyr Gln Leu Pro Gly Thr Val Lys Pro Leu Pro
210 215 220
Ala Ala Val Gln Ser Val Gln Val Gln Pro Ser Tyr Ala Gly Gly Val
225 230 235 240
Lys Ser Leu Ser Ser Ala Glu His Asn Ala Leu Leu His Ser Pro Gly
245 250 255
Ser Leu Thr Pro Pro Pro His Lys Ser Asn Val Ser Ala Met Glu Glu

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Pro Pro Glu Lys Glu Lys Ser Ser Leu Ala Lys Ala Ala Ser Pro Ile					
290	295	300			
Ala Lys Glu Asn Lys Asp Phe Pro Lys Thr Glu Glu Val Ser Gly Lys					
305	310	315			320
Pro Gln Lys Lys Gly Pro Glu Ala Glu Thr Trp Glu Ala Lys Lys Glu					
	325	330			335
Gly Pro Leu Asp Val His Thr Pro Asn Gly Thr Glu Pro Leu Lys Ala					
	340	345			350
Lys Val Thr Asn Gly Cys Asn Asn Leu Gly Ile Ile Met Asp His Ser					
	355	360			365
Pro Glu Pro Ser Phe Ile Asn Pro Leu Ser Ala Leu Gln Ser Ile Met					
	370	375			380
Asn Thr His Leu Gly Lys Val Ser Lys Pro Val Ser Pro Ser Leu Asp					
385	390	395			400
Pro Leu Ala Met Leu Tyr Lys Ile Ser Asn Ser Met Leu Asp Lys Pro					
	405	410			415
Val Tyr Pro Ala Thr Pro Val Lys Gln Ala Asp Ala Ile Asp Arg Tyr					
	420	425			430
Tyr Tyr Glu Asn Ser Asp Gln Pro Ile Asp Leu Thr Lys Ser Lys Asn					
	435	440			445
Lys Pro Leu Val Ser Ser Val Ala Asp Ser Val Ala Ser Pro Leu Arg					
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Glu Ser Ala Leu Met Asp Ile Ser Asp Met Val Lys Asn Leu Thr Gly					
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Arg Leu Thr Pro Lys Ser Ser Thr Pro Ser Thr Val Ser Glu Lys Ser					
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Asp Ala Asp Gly Ser Ser Phe Glu Glu Ala Leu Asp Glu Leu Ser Pro					
	500	505			510
Val His Lys Arg Lys Gly Arg Gln Ser Asn Trp Asn Pro Gln His Leu					
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Leu Ile Leu Gln Ala Gln Phe Ala Ser Ser Leu Arg Glu Thr Thr Glu					
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Gly Lys Tyr Ile Met Ser Asp Leu Gly Pro Gln Glu Arg Val His Ile					
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Ser Lys Phe Thr Gly Leu Ser Met Thr Thr Ile Ser His Trp Leu Ala					
	565	570			575
Asn Val Lys Tyr Gln Leu Arg Arg Thr Gly Thr Lys Phe Leu Lys					
	580	585			590
Asn Leu Asp Thr Gly His Pro Val Phe Phe Cys Asn Asp Cys Ala Ser					
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Gln Phe Arg Thr Ala Ser Thr Tyr Ile Ser His Leu Glu Thr His Leu					
	610	615			620
Gly Phe Ser Leu Lys Asp Leu Ser Lys Leu Pro Leu Asn Gln Ile Gln					
625	630	635			640
Glu Gln Gln Asn Val Ser Lys Val Leu Thr Asn Lys Thr Leu Gly Pro					
	645	650			655
Leu Gly Ala Thr Glu Glu Asp Leu Gly Ser Thr Phe Gln Cys Lys Leu					
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Cys Asn Arg Thr Phe Ala Lys Gln Ala Arg Ser Gln Thr Ala Pro					
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<210> 586

<211> 1898
 <212> DNA
 <213> Homo Sapiens

<400> 586

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<210> 587
 <211> 399
 <212> PRT
 <213> Homo Sapiens

<400> 587

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Pro Pro Gln Pro Pro Ser Ala Leu Glu Ser Asp Gly Glu Gly Pro Pro
          35              40              45
Pro Arg Val Gly Phe Val Asp Ser Thr Ile Lys Ser Leu Asp Lys Leu
          50              55              60
Arg Thr Leu Leu Tyr Gln Glu His Val Pro Thr Ser Ser Ala Ser Ala
          65              70              75              80
Gly Thr Pro Val Glu Val Gly Asp Arg Phe Thr Leu Glu Pro Leu Arg

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85 90 95
 Gly Asp Gln Pro Arg Ser Val Cys Gly Gly Asp Leu Ala Leu Pro Pro
 100 105 110
 Val Pro Lys Glu Ala Val Ser Gly Arg Val Gln Leu Pro Gln Pro Leu
 115 120 125
 Val Glu Lys Ser Glu Leu Ala Pro Thr Arg Gly Ala Val Met Glu Gln
 130 135 140
 Gly Thr Ser Ser Ser Met Thr Glu Ser Ser Pro Arg Ser Met Leu Gly
 145 150 155 160
 Tyr Asp Arg Asp Gly Arg Gln Val Ala Ser Asp Ser His Val Val Pro
 165 170 175
 Ser Val Pro Gln Asp Val Pro Ala Phe Val Arg Pro Ala Arg Val Pro
 180 185 190
 Thr Arg Asp Gly Gly Ala Gly Ser Ser Ala Pro Pro Pro Ser Asp Met
 195 200 205
 Gly Val Gly Gly Gln Ala Ser His Pro Gln Thr Leu Gly Arg Ala Leu
 210 215 220
 Gly Ser Pro Arg Arg Pro Asp His Gln Asp Val Ser Ser Pro Ala Lys
 225 230 235 240
 Thr Val Gly Arg Phe Ser Val Val Ser Thr Gln Asp Glu Trp Thr Leu
 245 250 255
 Ala Ser Pro His Ser Leu Arg Tyr Ser Ala Pro Pro Asp Val Tyr Leu
 260 265 270
 Asp Glu Ala Pro Ser Ser Pro Asp Val Lys Leu Ala Val Arg Arg Ala
 275 280 285
 Gln Thr Ala Ser Ser Ile Glu Val Gly Val Gly Glu Pro Val Ser Ser
 290 295 300
 Asp Ser Gly Asp Glu Gly Pro Arg Ala Arg Pro Pro Val Gln Lys Gln
 305 310 315 320
 Ala Ser Leu Pro Val Ser Gly Ser Val Ala Gly Asp Phe Val Lys Lys
 325 330 335
 Ala Thr Ala Ser Cys Arg Gly Leu Leu Gly Pro Ala Ser Leu Gly Pro
 340 345 350
 Glu Thr Pro Ser Arg Val Gly Met Lys Val Pro Thr Ile Ser Val Thr
 355 360 365
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 370 375 380
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 385 390 395

<210> 588
 <211> 707
 <212> DNA
 <213> Homo Sapiens

<400> 588
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 caaaagttagc acagaagtca tatggaaatg aaanaagggt tttttgcccc cctccttggtg 180
 tatatcttat gggcantgga tggaagaaaa aaaangaaca aatggaacgc gatggtgtgtt 240
 ctgaacaaaa gtctcaaccg tgtgcattta ttgggatagg aaatagtgc caaaaaatgc 300
 agcagctana cttggaagga aagaactatt gcacagccaa aacattgtat atatctgact 360
 cagacaagcg aaagcacttc atgttgtctg taaagatggt ctatggcaac agtgcagaca 420
 ttggtgtgtt cctcagcaag cgaataaaag tcntctccaa accttccaaa aagaacagtc 480
 attgaaaaat gctgacttat gcattgcctc angaacaagg gtggctctgt ttaatcgact 540

acnateccan	acagttagta	ccagatactt	gcatgttana	aggaggtnat	tttcatgcca	600
gttcacagcn	gtggggagcc	ttttttatc	anctcttgga	tgatgatgan	tcnaaggag	660
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<210> 589
 <211> 551
 <212> DNA
 <213> Homo Sapiens

<400> 589		
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ttttgttaac	tttttcccac	actcaagtca gtttaagtcc tagcaaaaag acggtagtta 180
ggataccact	gtggctgtan	atgatgtgac actggttgaa tttgtgctgg cgtttgtgta 240
acttccctcg	ctgtttgtgt	ttgattcgtt agggggcacc tggcttgaat tggctcgaag 300
gattgtcctc	gtgcactgc	aatgtggccg cggtcctggt tctgtgtgt angtaaaggt 360
aaggctggtg	gaataaatga	ttccaccatt tcggaccaaa gttactggaa cctggactgg 420
ttgcccggacc	catctccaac	cttctcggaa tgcanaaatg tctgggacga cacagaacat 480
acctctcac	acgtctacat	aatttcagct tctacatccc caaacccacac tctgtaaat 540
ggantnaaaa	t	551

<210> 590
 <211> 478
 <212> DNA
 <213> Homo Sapiens

<400> 590		
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atcacctggt	atgaaaagt	ttcccaagaa accacaaaac attgttcatt ttttctcctt 120
ttttgttaac	tttttcccac	actcaantca gtttaagtcc tagcaaaaan acggtagtta 180
ggataccact	gtggctgtaa	atgatntgac actggttgaa tttgtgctgg cgtttgtgta 240
acttccctcg	ctgtttgtgt	ttgattcgtt agggggcacc tggcttgaat tggctcgaag 300
gattgtcctc	gtgcactgc	aatgtggccg cggtcctgnt tcttatntgt tgtaaangtn 360
aggntgggtg	aataaaatgat	tccatcatnt cgganccaag ttgctgggaa ctggganngg 420
tnngccgaac	catctccgac	cncgccgaaa ngcagaagtg tngtggngag accggaac 478

<210> 591
 <211> 707
 <212> DNA
 <213> Homo Sapiens

<400> 591		
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ttttgttaac	tttttcccac	actcaantca gtttaantcc tancaaaaag acggtagtta 180
ggataccact	gtggctgtaa	atgatgtgac actggttgaa tttgtgctgg cgtttgtgta 240
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gattgtcctc	gtgcactgc	aatgtggccg cggtcctggt tctgtgtgt aggttaaaggt 360
aaggctggtg	gaataaatga	ttccatcatt tcggaccaaa gttactggaa cctggactgg 420
ttgcccggacc	catctccaac	cttctcggaa tgcagaaatg tctgggacga cacagancat 480
actctctcca	catctgtaca	tagtttcngc tctacatccc ccaaacccca ctctgtaaat 540
tggantgaaa	ttctgtcctg	taagtccaag cattnctaog tccccaccog ccatttcaac 600
tgaaaggtc	tctaccacan	ggnacaggaa atgactgggg caaggacagg gccattcccc 660
tcattaaaatg	tnactactccg	ccttatcngt cetaaangaa tgtacca 707

<210> 592
<211> 541
<212> DNA
<213> Homo Sapiens

<400> 592
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ccccccctnn ttngtttttn atccnttagg gggcacctgn cttntantngg cncaaaggat 180
ngccctgtgc gcantgcaat ttggccncgg ccttggctct ggtttntagg taaaggtaag 240
gcnnggtgnaa taantaatcc caccattncg naccaaaattt actgnaacct gaacngggtg 300
ccgnaccan cnccancctn cncgaaatgc aaaantttct ggnacaaacnc aaaccntacn 360
cncncacccc ctnctnctat ttncagctnc tacntcccca aaccacacnc ntaaatnngn 420
attaaaatcc tntcctgtaa ttccaagcat ggctacttcc ccaccgcat tcaactnaag 480
gccnctacc acaggcncag nattaantgg ggcaaggaaa gggcccatcc ccccataaaa 540
t 541

<210> 593
<211> 605
<212> DNA
<213> Homo Sapiens

<400> 593
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atcacctggg atgaaaagtt ttcccaanaa accacaaacn antgttcatt ttntctcctt 120
ttttgttaac tttttgccac actcaantca gttaantcc tagcaaaaaa acggtagtga 180
ggataccact gtggctgtga atgatgtnc actgggtgaa tttgtgtgg cgtttgtgtn 240
acttccctcg ctgtttgtgt ttgattcgtt agggggcacc tggcttgaat tggctcgaan 300
gattgtcctt gctgcactgc aatgtggcgg cgccctgggt tctgtgtgt aagtaaaggt 360
aaggctgtgt gaataaatga ttccntcatt tcggancaa gttaactggaa cctggantgg 420
ttgncggacc atctccaaac ttctcggaat gcanaaatgt ctgggacaa acnnaacata 480
ctctctcnc acctgtgtca tantttcagc ttctacatcc cccaaaccac actcntaaat 540
ttggantgaa attctgtcct gttaattcaa acattgtctac gtcccnccg ccattcaact 600
gaaag 605

<210> 594
<211> 666
<212> DNA
<213> Homo Sapiens

<400> 594
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acttattctt catgcaaaa ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg 180
cccacctcct tgtgtatctt ttatgggagc tggatggaag aaaaaaaaag aacaaatgga 240
acgcgatggg tgttctgaac aagagtctca accgtgtgca tttattggga taggaaatag 300
tgaccaagaa atgcagcagc taaacttga aggaagaac tattgcacag ccaaaacatt 360
gtatatctct gactcagaca agcgaaagca cttcatgttg tctgtaaaga tgttctatgg 420
caacagtgat gacattgggt tgttctctca caagcgata aaagtcattc ccaaaccttc 480
caaaaagaac agtcattgaa aaatgctgac ttatgcattg cctcaggaac aaaggtggct 540
ctgtttaatc gactacgac ccagacaggt ngtaccagat acttgcattg anaaggaggt 600
aattttccat gccagttccc accagtgggg agcctttttt attcncctctt gggatgatga 660
tgaatc 666

<210> 595

<211> 600
 <212> DNA
 <213> Homo Sapiens

<400> 595
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 tgtgtttgat tcgttagggg gcacctggct tgaattggct cgaaggattg ctcctgctgc 180
 actgcaatgt ggcgcggggc ctgggtcttg tggttaggta aaggtaaggc tgggtggaata 240
 aatgattcca tcatttcgga ccaaagttac tggaaacctgg actggttgcc ggacctactc 300
 ccaacctctc cggaatgcgg aaatgtctgg gacgacacag ancatactct cccacacct 360
 gtacatatgt tcagcttcta catccccaaa ccacactcgt aaatttggag tgaattctcg 420
 tcctgtaagt tcaagcattg ctacgtcccc accgccattc aactgaaggc tctctaccac 480
 aggcacagga atgactgggg caaggacagg gcccatcccc tncataaaat gtntaatttg 540
 gggncaaantg tggcccccaa cccccccca aagggcatna tttaacnccn ctttaattgg 600

<210> 596
 <211> 835
 <212> DNA
 <213> Homo Sapiens

<400> 596
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 atcacctggg atgaaaagt ttcccaanaa accacaaacn attgttcatt tttctcctt 120
 tttgtttaac tttttgccac actcaantca gtttaagtc tagcaaaaaa acggtagtta 180
 ggataccact gtggctgtaa atnatgtgac actgggtgaa tttgtgctgg cgtttgtgta 240
 acttcctcct ctgtttgtgt ttgattcgtt agggggcacc tggcttgaat tggctcgaag 300
 gattgctcct gctgcactgc aatgtggccg cggccctggg tgggtgtgt aggtaaagg 360
 aaggctgggt gaataaatga ttccatcatt tcggaccaaa gttactggaa cctggactgg 420
 ttgccggacc catctccaac cttctcggaa tgcagaaatg tctgggacga cacanancat 480
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 tggagtgaaa ttctgtcctg taagtccaag cattgctacg tccccaccgc cattcaactg 600
 aaggcctcta cacaggcaca ggaatgactg gggcaaggan agggccatt cctcataaaa 660
 atgtatactc tgccttatct gtgctaatga ttgtccagga aacgccanca ttttaccacc 720
 tcnttattgg ttcttttggg antggaatgg cctgaaattg aaatattctt ccttgaaaaa 780
 aggcctaaata cntctctctg ttccttnaag ggtaaaaatgc caatttttgg aatttg 835

<210> 597
 <211> 443
 <212> DNA
 <213> Homo Sapiens

<400> 597
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 gacttcnccn ggaccgcgaa cagcgcanag gctattatc atggactatc cagtctaaca 240
 gcttgccagt gagaacgata tacatatgtc agtttttgac aagaattgca gcaggaaaaa 300
 cccttgatgc ncagtttgaa atgatgaac gaattacacc cttggaatcn gccctgatga 360
 tttggggttc aattgaaaaa gaacatgaac aactctctga agaaatacag aatttaatta 420
 aaattcangc tatngctgtt tgt 443

<210> 598
 <211> 491
 <212> DNA

<213> Homo Sapiens

<400> 598

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tggtgcaact	tagataanaa	aagattcttg	tgagacctca	ataaggatac	tgaccctct	120
gaggattcag	ttaccgcaga	ctgtttgtca	ctaacacttt	ttcttgtatc	caaattagct	180
tcagtttcca	tttcaacatc	attaccacta	ggtttatctt	gagaagttaa	tggttctgtc	240
cttttgcctt	ctactacttt	tgccgctgcc	ttcattagaa	aggttgatga	tttttcaact	300
agcacataat	tcacataact	cttaattttc	tccatcatgt	gggttgtagc	gaagtgttga	360
aaaaaggaat	gaaatgtatc	ttcttgagan	attatcataa	gcaatttgct	tttgaaggc	420
atatgagaat	ttggatcacc	aaatattctt	tcaaagactt	cttctgcttc	tttaaagtgt	480
ccattttcca	t					491

<210> 599

<211> 802

<212> DNA

<213> Homo Sapiens

<400> 599

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tggtgcaact	taataagaa	aagattcttg	tgagacctca	ataaggatac	tgaccctct	120
gaggattcag	ttaccgcaga	ctgtttgtca	ctaacacttt	ttcttgtatc	caaattagct	180
tcagtttcca	tttcaacatc	attaccacta	ggtttatctt	gagaagttaa	tggttctgtc	240
cttttgcctt	ctactacttt	tgccgctgcc	ttcattagaa	aggttgatga	tttttcaact	300
agcacataat	tcacataact	cttaattttc	tccatcatgt	gggttgtagc	gaagtgttga	360
aaaaaggaat	gaaatgtatc	ttcttgagan	attatcataa	gcaatttgct	tttgaaggc	420
atatgagaat	ttggatcacc	aaatattctt	tcaaagactt	cttctgcttc	tttaaagtgt	480
ccattttcca	tacaaacagc	tatagcctga	attttaatta	aattctgtat	ttcttcatga	540
agtttgcctt	gttctttttc	aattgaaccc	caaatcatca	gggttgatc	caanggtgta	600
attcggtcat	cattttcaaa	ctgtgcatca	aggttttttc	ctgctgcaat	tcttgcataa	660
aactgcata	tgtnatctgt	tctcaactgg	cnagcctgtt	aaactggaaa	atccatgaat	720
aataacctct	ggcgtctgtg	cgggtcctgc	ggaattccn	cggaaaccgc	cgtcncggaa	780
aactcngcaa	aagaaaaaaa	gc				802

<210> 600

<211> 523

<212> DNA

<213> Homo Sapiens

<400> 600

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aaatactaaa	gttgaatgtt	gtaaaaaac	nccgtgggtc	agcggcagcg	gcagcgtctg	120
gccaggaggc	gtggaggggc	ccagggatgg	ccacccccc	agggagtcag	ggagggcctg	180
ggcgacagc	ggaaagggtt	agcgtcnaaa	aggtcaagt	ctaccgtgga	naaatcatct	240
gagggggagg	ctcccggttg	gacagtcacc	anaaactgtn	acacacaagg	ggaaggggga	300
gggctttctt	gtcacaaaana	ttaaaaaccc	ccnaaatgca	tttgaacaac	atnatacaacn	360
ataacaaatt	taaaccttgc	tctctgttcc	cactgggttna	accctggccc	atcccccatc	420
cctgggtccca	tcccaggggc	ccagcctccg	atnactcttc	anaaacacng	ccttnntgtc	480
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<210> 601

<211> 530

<212> DNA

<213> Homo Sapiens

<400> 601
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 aataactaaa ttaaattttn taaaaaaacc ccntgntgca cgggcanogg cancttctgg 120
 ccaaaangct tnaaggggcc cagggatngc cnecccccna gggattcnng gagggcctgg 180
 ggcaanangc naaagggttaa cctcnaaaaa ggtcaattnc taccgtgnaa aaatnatctn 240
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 ggctttctcn tnncaaaaaa tnaaaacccc cnaaatgcct ttnaacnact ttntnccan 360
 tnncaatttt naaccttgcn cctctntccc actgggtnaa ccttgcccca tccccatcc 420
 ctggtcccnt ccnnggggcc caccceccna taacttctct aaaaaccnng cttntntctg 480
 gggggctgct ntttttctcc ccccccaana aaaggtntct gccccectcc 530

<210> 602

<211> 311

<212> DNA

<213> Homo Sapiens

<400> 602
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 ggancgcgtg cggntnccgn tgtgccnctt ggtgcncgga anancanggc tacngnttct 180
 acctntactg gtganannng ccgcccgcgg cacttcttcc ggcgcgtgna nctctgttcc 240
 ccccgccgag gcngccgcgc tgtgctctgg ggatctnctg ntcnaggta acntgcntca 300
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<210> 603

<211> 289

<212> DNA

<213> Homo Sapiens

<400> 603
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 tatnangaan anaaccatca ncnncntcc ctttcantca tctggcnctt gcanaccatc 180
 tttcgccctc tnccccgcgc tgetctccna cccccgtgac cnetctcatc tctctccnct 240
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<210> 604

<211> 356

<212> DNA

<213> Homo Sapiens

<400> 604
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 tgtgccgctt ggtgcgcgga nagcanggct acggcttcca cctgcacggt gagaanggcc 180
 gcccggggca ntccatccgg cgcgtggaac ccggttcccc cgccgaggcc nccgcnctgc 240
 gcgctgggga ccgcntgntc naggtcnacn gcgtcaacnt ggaggcgcat accacnctct 300
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<210> 605

<211> 290

<212> DNA

<213> Homo Sapiens

<400> 605

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nnantcgact	nccaccaact	gtnnntcttc	cttcccttcc	cnangtccct	anntaccncc	180
tnntggccct	ctnccctctn	tttccctctn	cgctttccct	nactctttat	ctntcttntc	240
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<210> 606
 <211> 714
 <212> DNA
 <213> Homo Sapiens

<400> 606	
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atgcagataa	ttaaaacttac
aaattgaaat	gagattataa
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aaaaatattt	ttatttttaa
ttgatctggg	anaaaaatac
atctcactaa	ttttaanaac
attactggcc	agctgttggt
aatggaactc	tcagcagaat
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	ttca

<210> 607
 <211> 687
 <212> DNA
 <213> Homo Sapiens

<400> 607	
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ttataaatttg	aaaactgcac
tgttttatga	ctaatacact
tttaaaaaata	agcctgtgtt
aaatactggt	tctgatagca
aagaactatt	gagaaattga
gttggcattg	gttttcttac
ngaatataact	taaatatact
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<210> 608
 <211> 994
 <212> DNA
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<400> 608	
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	atggcctgca
	atccaaagct
	gtggaaattt

tggcacaaga	aatgatgact	gatttgccaa	gctcgtttga	agaaaaaagc	attattaaaa	360
tggttggcct	tgatatgagt	aaagaagctg	caagaaaatg	ctatgagaaa	tctggcctga	420
caccaaatag	tattgacgta	atagaacttc	acgattgctt	ttctaccaac	gaactcctta	480
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ttttagaact	catcaaaatt	gaagccngtt	ccaaccaagc	tctgcaagtn	atnggtttta	840
ngnaaaatct	ngttttaaag	gnngattgag	aaggaaaact	naagagggga	anggggaaca	900
atttgtgaaa	gaaaaatncg	gnnggaattt	tggcccttca	aggggaaana	atggccctgg	960
ggggtaaaa	angggccacc	tgggggtggt	ggat			994

<210> 609

<211> 843

<212> DNA

<213> Homo Sapiens

<400> 609

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aaaantnttt	tnatttttaa	aataacceng	tncccaaccc	cngatcanat	tcctttnatt	360
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naaccctant	taccattttta	ccttggttaag	gcncagtngt	ttgcantncc	gcaaanccagt	720
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<210> 610

<211> 707

<212> DNA

<213> Homo Sapiens

<400> 610

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gtgccaaa	gctgttccct	tttgactaa	cagttaaatt	tacaagggga	tttagagggg	420
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tccttgcaaa	gttatttcta	agttnaatc	attatgcnc	angtatagg	gttagtctct	660
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<210> 611

<211> 663
<212> DNA
<213> Homo Sapiens

<400> 611

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gacanaacttc	tgttcccagg	cccttctcan	aaaaacctca	gtgggaaacc	aagctanaga	300
taanaattct	tccttgatgc	agttagggga	aagggaagg	ctagaaactt	ctttggcaag	360
caattccaca	cacagccatt	tatgtgtgag	tgctctgctt	caagcacagt	acgctctttg	420
cagggaacgc	cagatgttca	gagtgaggag	ggtacttttc	aaccagctaa	aagtgacagaa	480
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ccacccccta	tgggactgga	atnttgagtt	aaaaagccaa	ngctgaactg	gctgacgctg	600
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tga						663

<210> 612
<211> 621
<212> DNA
<213> Homo Sapiens

<400> 612

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aagtaatctc	anaaaaaaaaa	gggtttttga	aattaaactt	gactttttaa	aaatcatacg	180
gacaaacaa	tttcaaacaa	aaactggatta	gtaggatttc	ttgctgcttc	aactaacatg	240
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aanaattctt	ccctgatgca	gttaggggaa	agggaaaggc	tagaaacttc	tttggcaagc	360
aattccacnc	acagccattt	atgtgtgagt	gctctgcttc	aagcacanta	cgtcttttgc	420
agggacggcc	anatgttcnn	antgggagtg	gtacttttca	accagctaaa	antgcanaag	480
tcattctantc	gtctgctctc	tcccactgcc	agttgctctc	agccttgcat	catcttttaa	540
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<210> 613
<211> 637
<212> DNA
<213> Homo Sapiens

<400> 613

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tantntnctn	aaaaaaaaa	gggttganga	aattaaactt	gactttttaa	anatcatgng	180
gacaaacnac	tttcaaacaa	agctggatta	gnaggatttc	tngnctgctt	aactaacatn	240
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aanantttct	ccctgatgca	ntggggggag	anggagaggc	taaaaacttc	tntgccaanc	360
anttccacnc	acngccattt	ttntntnagt	gcctgctcnc	nancnagta	cgtcttttgg	420
gnggacggcn	anntnttnat	agngggagtg	gtnttttcaa	ccagctaaata	ntgaagaaat	480
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ccccctangg	acnggattat	nnagtttaana	ccgaggntga	gctggntgac	gctntctcct	600
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<210> 614

<211> 673
 <212> DNA
 <213> Homo Sapiens

<400> 614

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cttgaaggct acaagtggca aggaagattc tatttcaaat atagccacag aataaaagga	180
tggacaaaaa tctgggacag tgtcttctca gaaacaaccg gccttgaagg atacaagtga	240
caaggatgat tctgttttga acacagccac agaaataaaa gatgaacaaa aatctgggac	300
agtgtctctc gctgttgaac agtgtttaaa caggagtctc tacagacctg atgtctgttg	360
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agtttgcctt ggaatctgag aatatttctg aaccatactt tacgaacaga aggactattc	600
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<210> 615
 <211> 714
 <212> DNA
 <213> Homo Sapiens

<400> 615

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<210> 616
 <211> 688
 <212> DNA
 <213> Homo Sapiens

<400> 616

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<210> 617
 <211> 721
 <212> DNA
 <213> Homo Sapiens

<400> 617
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<210> 618
 <211> 461
 <212> DNA
 <213> Homo Sapiens

<400> 618
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<210> 619
 <211> 751
 <212> DNA
 <213> Homo Sapiens

<400> 619
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 caggcctggt tggagggcag caccgccagg acggcctcgc aggcagcacc agcctcatcg 420
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<210> 620
<211> 556
<212> DNA
<213> Homo Sapiens

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tgtcanccca ngcaanaggg ccaanatgca attcagggat ccntgggaca ggtccaaaaat 480
gaccgggggg ctgaaattcc gggacggggg aacaaggcnn tttaatngta ggccagggcc 540
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<210> 621
<211> 708
<212> DNA
<213> Homo Sapiens

<400> 621
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<210> 622
<211> 675
<212> DNA
<213> Homo Sapiens

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<210> 623
 <211> 713
 <212> DNA
 <213> Homo Sapiens

<400> 623
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<210> 624
 <211> 554
 <212> DNA
 <213> Homo Sapiens

<400> 624
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 acctaaagga cagc 554

<210> 625
 <211> 551
 <212> DNA
 <213> Homo Sapiens

<400> 625
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 gcacaatana ntgactataa tcaataataa ctactttgta tattttttaa tgatctaaaa 240
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<210> 626
 <211> 680

<212> DNA
<213> Homo Sapiens

<400> 626

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<210> 627
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<212> DNA
<213> Homo Sapiens

<400> 627

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ccaagaatac	ccaaattcaa	gttcttccag	aaggaggtga	aacaccaatc	ttcaaacagt	480
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gagaaagtgg	ctcaanttna	acnaattccc	ttgatgcct	cnnaattacn	cagttctccg	600
cagatggcag	cccagcacaa	tatggtggat	gatggttctg	gccaagtggg	aatttggcgt	660
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<210> 628
<211> 675
<212> DNA
<213> Homo Sapiens

<400> 628

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gttaaancca	ccttaacata	aaccttatng	caattntaca	cntcttttga	acncaatcta	180
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tatngcccca	taacaaaant	tcctnccagg	ttattttta	ntnttaacnt	aaaaaaacnc	420
cagntgaaaa	aaaatttncaa	nccaaaacta	acnttaaaaa	aataggcnnt	nggttnaggt	480
taattttttt	tttttttttt	ttgnaaanaa	antcncntnt	gccagncctg	gattgtgggtg	540
gcnccaatcc	tggtcactg	caacctcagc	ctcctgggtt	caagcaattt	ncctgtctca	600
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<210> 629
<211> 677
<212> DNA
<213> Homo Sapiens

<400> 629

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cttcacatct	gacctttggc	ccgaaattta	tcanttggtg	tggttctctn	tgcaacaaat	600
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ggtctgaact	aattgtc					677

<210> 630
<211> 665
<212> DNA
<213> Homo Sapiens

<400> 630

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catcatcttc	agctaaaatca	tcctgggtga	actctccctg	gaatctcttc	aataacaaat	660
ctccc						665

<210> 631
<211> 698
<212> DNA
<213> Homo Sapiens

<400> 631

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aatatgtaga	catcantatt	attgccctta	ctcgaatacg	gaggacaagg	agatggtaca	420
cttgtccact	gtgtgggaaa	cagttttaat	aaagtctcta	cctcatttcc	caccagagga	480
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caaacctcaa	taaacatgag	cgaattcnta	caggagagaa	accttatctc	tgttctcagt	600
gtggaaaaaa	cttccgtcng	aattctcatc	ggagtcgtcc	tgaaggaaac	catntaacgg	660

agaagatatt aagtgtccan aatgtgggaa aacctccc

698

<210> 632
<211> 466
<212> DNA
<213> Homo Sapiens

<400> 632

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ttaaacaggt	attcttagag	ggttatatga	attgctatca	gaagctgttg	gctaacaagc	180
cagtaatttg	gttctttcac	canaacacag	ttccagataa	gcattcttgc	actattttct	240
aantatgaat	ccccatgttg	ggggaaaacg	gatatacttt	caatagacac	aagtcactct	300
ttgccttcca	agtaagcana	ctccagattc	atcttcaaa	tggtgggaaa	ngggatctgt	360
gacctgtncn	ttatcatata	acttcaaaaa	ggaaagctcc	ttantccaaa	aagccttanat	420
gctgaggtat	agcccttgaa	atgttttctt	ccctgtnaat	ttccta		466

<210> 633
<211> 734
<212> DNA
<213> Homo Sapiens

<400> 633

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gcttccaagt	gaacttaaca	tattgcctat	gcattctgatt	ctttatanac	ttttanattt	180
taaaactaaa	tttganaaac	catgcatact	gtataacctta	tttaataatc	caanaaatgt	240
tttgaccttt	caaaaaagtt	acaaaaaggg	tgaacacaag	ttaaataacc	tatatgatgt	300
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gattgtcaga	nacgcttcag	ttaaattatct	ctacttttaa	attatatctg	aatccctttt	420
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ncacctatgy	tatgctgcac	attaaattta	acattttcaag	taacatatat	atagcaaaaca	600
ttcagccaaa	tactctttca	tgaaaagata	ctgtcccttaa	aataaaaaag	tantgaaaag	660
cttattttaga	ccnaatgtct	aaatataant	nctaagccta	tgaacttgta	anctaaagtc	720
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<210> 634
<211> 822
<212> DNA
<213> Homo Sapiens

<400> 634

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aaaaggtagt	atgcactttc	tgagcataat	ctgaaatc	acccaggaga	agagaatttt	300
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tcttcttcgg	gaatatctat	cagtaaaact	cctatcatga	aaatgatgaa	aaataaagtg	480
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aatgaaatca	aaccagaccg	tgaagaaatt	gtagaaaatc	caagtctctc	agcttctgaa	600
tctaatacaa	gtacttccat	tgtaaacaga	atacatccaa	gtactgccag	cacggttagtg	660
acccagcagc	agttcctccc	tggattgggc	ccaggtgata	actgctgtnt	ctgctccgcc	720

agaattctaa ttgtattccc naagtcttaa tccctgttna tancatcccc cctacaatgc 780
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<210> 635
 <211> 819
 <212> DNA
 <213> Homo Sapiens

<400> 635
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 ctttggcaca acattaagtt ccatttcttt tgggtattgg atcctgtctt ttgagtgtgt 360
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 gacagcttcc gtttcacatg tcgtggaagt cccaagtgtc actatcatct gtcttctctt 540
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 tatgtgattt gttacaatat tcacaaaggt cttgctcatt aaaaaacttg tgcctcaggt 720
 tataatcctt aanttttgcg gtccagttt taaattttat gaatnaatgg tccctgggtc 780
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<210> 636
 <211> 704
 <212> DNA
 <213> Homo Sapiens

<400> 636
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 nccatcgaca gtgacgtgtg aggtgaancg gctgttgccc tggcgcgga tctcgatctc 480
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 aatccatcng tcatgtctct cccgaacaaa aacatctctt tggt 704

<210> 637
 <211> 693
 <212> DNA
 <213> Homo Sapiens

<400> 637
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 cctctaaatc cccactgttg ctgttgctga tattgtacct tcgacatggc tacttttatt 360

tcacatttac	taaaaccaac	attgtggtat	ttcttttcca	ttatcttctt	cactgggtct	420
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tggtgctttt	angatcaatc	accttcccca	ttcaatttat	gttctttttg	gatccatgaa	660
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<210> 638
 <211> 619
 <212> DNA
 <213> Homo Sapiens

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<210> 639
 <211> 694
 <212> DNA
 <213> Homo Sapiens

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ngccagggan	aggcgagga	gcctttgcag	ccacgcgcgc	gccttccctg	tcttgtgtgc	180
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cgcgcgagcg	gcgggtgtat	tctcgccgc	agcgccggag	acactatcac	tatgtcggag	300
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<210> 640
 <211> 728
 <212> DNA
 <213> Homo Sapiens

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<210> 641

<211> 732

<212> DNA

<213> Homo Sapiens

<400> 641

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tgctctgttc	ctcanacttc	tctctctcaa	gcgtattccc	cccacaacaa	ggacagcagc	300
ttggactaca	tatctggctg	atgatgtaat	aaaaagatta	ggcatggggg	tttctaagc	360
cacaattcag	ggccactctg	caccaacaga	gataagcacc	caggttggaag	cccccttccc	420
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gcgggactat	ccgtctacgg	aaaaagtgtc	caatttcaaa	atcagaagct	aatgtgaatt	540
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<210> 642

<211> 582

<212> DNA

<213> Homo Sapiens

<400> 642

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naaggcgctg	cctgatttcc	tcaagctcct	ccttctctct	cttctctatc	cgttctatctg	180
cttccatttc	ctttctctca	tcaagcaacc	ttttctgaaa	agcacttctc	ctgtaattatt	240
tggggtcctc	tctatcatca	tcatagtctt	ctaanaattc	tttttagctg	ttagcttctt	300
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gganttttct	ttcaagtttt	cttctgtctg	atgcatcttc	ttcatctctc	tctcgttccc	480
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<210> 643

<211> 784

<212> DNA

<213> Homo Sapiens

<400> 643

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aagaaattct	tcttgaagaa	gccagtcaga	aacgtggaga	attgcaaaact	aaactcaaga	180

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gaagancctt	ccgggaaggg	aatgaagtgt	attctcagag	cngtattaga	acnagaagcta	660
aagangctcc	gggtgagaac	nccgggggtg	acctccctaa	aattccagtc	cagagatgtn	720
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cttc						784

<210> 644
 <211> 749
 <212> DNA
 <213> Homo Sapiens

<400> 644						
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caactcttga	tgagccgctt	acaacagcag	ttccttaggg	agccaacatg	acaggtgggt	480
canatttccc	tatgagaaac	aaaactggcc	acctacagca	aaatatcaaa	atgggtaagt	540
ccttccttcc	tcttctcctc	gattatatac	aacatatctc	ctttcaagac	tattatttcc	600
atcatgtcta	ttccttcaca	aatctaaacc	ttgaggtgat	atgaaggaaa	ccanctcaa	660
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<210> 645
 <211> 751
 <212> DNA
 <213> Homo Sapiens

<400> 645						
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caanactgaa	tgggcagtc	tgtggcttct	ttctttttcc	atattcccaa	caaggctacg	420
tgaagtcca	ctcttgatga	gccgcttaca	acagcagttc	cttaggancc	caacatgaca	480
ggtaggtcag	atttccctat	gagaaacaaa	actggncacc	tacagcaaaa	tntcaaaatg	540
ggtaagtcc	tccttctctt	tcctctctgat	tatntacaac	atatctcctt	tcaagantat	600
tatttccatc	atgctttatt	cttcccaaat	ctaaaccttg	aaggtgattt	gaagggaaac	660
cnccatccnn	aaaaagaaaa	accatttccc	aaattgaaaa	aaaactnggc	agggtatata	720
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<210> 646
 <211> 760
 <212> DNA

<213> Homo Sapiens

<400> 646

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tctatacata	aacttcagtc	atttttgctt	gtgcanaatc	atcccaatct	tcccaanact	360
gaatggcgag	tctctgtgct	ttcttctctt	tccatattcc	caacaaggct	acgtgaagtt	420
caactcttga	tgagccgctt	acaacagcag	ttccttagga	gccaacatga	cagggtgggtc	480
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cttccttctc	cttctctctg	attatataca	acatatctcc	tttcaagact	attattccat	600
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aaagaaaact	cnantcnaaa	atgaaaaaaa	ctggcaggta	tncaatacac	cccaaaaact	720
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<210> 647

<211> 1041

<212> DNA

<213> Homo Sapiens

<400> 647

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ccggaaaact	gcagtcaata	taaagcaagg	tgaatgtttg	aattttggaa	taaaaactct	600
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<210> 648

<211> 810

<212> DNA

<213> Homo Sapiens

<400> 648

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gtctatcat	aaacttcant	catttttgct	tggtcaaaat	catcccaatc	ttcccaaac	360
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tcaactcttg	atnagccgct	tacaacagca	gttccttagg	agccaacatg	acaggtgggt	480
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tcttctcttc	ctcttctccc	tgattatata	caacatatct	cctttccaaga	ctattatttc	600
catcatgctt	attccttcac	aaatctaaac	cttgagggtga	tatgaaggaa	accancatca	660
agaaaagaaa	accaattcan	aaatgaanaa	aactggcagg	tntacaatac	accccananc	720
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<210> 649
<211> 656
<212> DNA
<213> Homo Sapiens

<400> 649						
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gcttnggaaa	agggctatca	tacaacntnc	antcanctna	aaatgggatng	gtaaaaggtn	300
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tnaatgggca	ntcctgtggc	ttntnctcct	tncccatatnc	ccaacaaggc	tacttnaatt	420
tcaactcttn	ataaancgct	tacaacagca	ntnccctagn	anccaacatn	acaggtgggt	480
caaattcccc	tataaaaaac	aaaactggcc	ncctacanca	aaatatcaaa	atgggtgaatt	540
ccttctnccc	tctnccncc	nattatatac	aacatttctc	ctttcaaaac	tattattncc	600
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<210> 650
<211> 645
<212> DNA
<213> Homo Sapiens

<400> 650						
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ncnctnctt	tgnaaaagg	ctatcanaca	acntncattc	ncctaaaaat	gnatnggtaa	300
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caaaaactnaa	tgggcnncc	ntggcttntc	ccctttccca	tnntccccac	aaggctactt	420
naatttncaac	ncttnataac	ccccttacaa	caccattncc	ttagnaccaa	cataacagg	480
gggtcaaat	ncnccataaa	aaacaaanct	ggccctncc	ccaaaatncc	caaatgggta	540
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<210> 651
<211> 780
<212> DNA
<213> Homo Sapiens

<400> 651						
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caagccatat	gtatgcagaa	cacttaacag	aattatgcta	tgttgtctgt	ttttgtttgt	180
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aaaaaaaaca	tcngcagcag	ggaactgaag	agacaaaaaa	gccnaaagga	tacaacttgc	660
atcaagctaa	agattgatag	tgaatttaaa	aaaaacagta	attttngcca	cccattgttg	720
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<210> 652

<211> 518

<212> DNA

<213> Homo Sapiens

<400> 652

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acaaaactat	tttttaaaaa	ancaaaaaaa	taaaaaatnt	ttncaaangg	gacctgaaat	180
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nccnctgctt	tggaaaaggg	ctntcatata	acnttcattc	ncctaaaaat	ggattggtaa	300
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tnaatttcaa	cncctnataa	ncogcttaca	acancatttc	cttaggancc	aacatnacgg	480
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<210> 653

<211> 490

<212> DNA

<213> Homo Sapiens

<400> 653

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gattctactt	caggagcaag	aagctcctcc	actatccgta	tcaaaaacott	ctctgaggtc	180
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gttgccagca	gaggacaatc	agaggagcct	gcaggtaaaa	caaagtctat	gcagggagggt	360
gcacatcaag	acgctggaag	aaattaaact	ggagaaggca	ctgaggggtgc	agcagagctc	420
tgagagcagc	accagctccc	cgtctcaaca	cnaggccact	ccaagggcaa	ggcggctgct	480
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<210> 654

<211> 359

<212> DNA

<213> Homo Sapiens

<400> 654

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tnntttttta	aaaagccaaa	naattaagaa	ttttttccaa	agggaaacnng	aatccnttag	180
ggtaatccca	aaaccaaatt	agttaaaaat	ccttggnata	accnnaacnt	tccnccnccn	240
ccttggaaaa	agggnnnnccn	ncnaccttcc	atnccntaa	aaatgaatgg	ntaaagnttt	300
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<210> 655

<211> 611
<212> DNA
<213> Homo Sapiens

<400> 655

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cancagagga	caatcanagg	agcctgcagg	taaaannaag	tctatgcagg	aggtgcacat	180
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<211> 634
<212> DNA
<213> Homo Sapiens

<400> 656

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ctgattccaa	aaacnaaata	anttnaaaat	ccttggtgaa	acctgaacat	tctacctctg	240
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tctatcata	aacttcagtc	atttttgctt	gtncaaaaatc	atccccatct	tccccaaant	360
gaatggggcag	tctctgtgct	ttcttctctt	tccatattcc	caacaaggnt	acntnaant	420
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aatttcccta	tnaaaaacaa	aactggggccc	tacagcaaaa	tatccaaatg	ggtnagtctt	540
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<210> 657
<211> 958
<212> DNA
<213> Homo Sapiens

<400> 657

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agaataacct gangggtggg cccaaccttg cccaagaaaa ccaccngtga aancaanca 900
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<210> 658
<211> 816
<212> DNA
<213> Homo Sapiens

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<210> 659
<211> 726
<212> DNA
<213> Homo Sapiens

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aaagaatgca tcttcccaa gagaaagcca agggtagaca tactgtgcct tgtatgccac 660
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<210> 660
<211> 824
<212> DNA
<213> Homo Sapiens

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tcagagttaa naccatata aaaggccggc tgatggttta aaggaagtaa ctacatggag 180
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ctgatttctt	ctctttcttg	gggaaccaag	ggccctgaa	aaaanaaacg	gtgtttggaa	780
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<210> 661
 <211> 399
 <212> DNA
 <213> Homo Sapiens

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cctntctnag	gattnaacaa	cctttttttt	cggttaaaaa	tttttaaaaa	aatingggaa	360
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<210> 662
 <211> 826
 <212> DNA
 <213> Homo Sapiens

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tcattgtaaa	atgaagccca	agagatgtgc	cactcctgta	atcatcgatg	aaattctacc	180
ctctaagaaa	atgaagtttt	ctaacaacaa	aaagaagcca	gaggaagaag	gcagtgtcca	240
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gccttgatg	ccacctgcaa	agcagaagtt	tctaaaaagt	actgaggagc	aagagctgga	360
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<210> 663
 <211> 770
 <212> DNA
 <213> Homo Sapiens

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<210> 664
 <211> 593
 <212> DNA
 <213> Homo Sapiens

<400> 664						
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<210> 665
 <211> 1024
 <212> DNA
 <213> Homo Sapiens

<400> 665						
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<210> 666
 <211> 734
 <212> DNA

<213> Homo Sapiens

<400> 666

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aattatcact	taacgaaggt	cctttgggtgc	tcctgtgca	tcagcttcat	tcactggggt	600
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taacacatag	ctactttctt	aaaccnataa	gcttaaaaaa	gangactatg	gaattaccaa	720
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<210> 667

<211> 592

<212> DNA

<213> Homo Sapiens

<400> 667

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acgaattttg	tttatanatc	tatgataaat	gcattctccc	tntaggaggt	agaanagtat	180
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anaagcagc	aaacgagtg	aacaacttgc	tcgagaaaaa	gtctatttgt	gtccaaaatt	420
aagangttta	gaggctgaag	taccngaatt	aaaggctgaa	naggagaatt	ctgangctca	480
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<210> 668

<211> 373

<212> DNA

<213> Homo Sapiens

<400> 668

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gtttttgtnt	atagtaaaac	anaanatgtg	tntggaacct	gttatggnc	agcatctcaa	180
agatgaagan	agaattaatg	atagttatat	ttcactcaaa	atgccccaaa	aaaaaattca	240
acaaagtaaa	aatttttaaaa	cttgactcta	actagtctct	ttttgtttta	cattctcaaa	300
ccattgtnaa	atattctaaa	tatctctgaa	aatttctctt	ttaatgcttc	acttgnttaa	360
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<210> 669

<211> 661

<212> DNA

<213> Homo Sapiens

<400> 669

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tgcttggtct	gaagcccttc	atcctgaaa	angacagcca	gcacttcnag	aacttctcgg	660
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<210> 670

<211> 401

<212> DNA

<213> Homo Sapiens

<400> 670

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tcacagtaaa	ngacctgggc	cgccccgggc	catctgcacc	ggcgccctct	ccctggccac	300
caccaagggc	tgacacgcag	gtctgggcag	ctccttctgg	gaaggcctat	gacgactcgc	360
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<210> 671

<211> 1347

<212> DNA

<213> Homo Sapiens

<400> 671

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<210> 672
<211> 3441
<212> DNA
<213> Homo Sapiens

<400> 672

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 <212> DNA
 <213> Homo Sapiens

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<210> 674
 <211> 1135
 <212> DNA
 <213> Homo Sapiens

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<210> 675

<211> 1067

<212> DNA

<213> Homo Sapiens

<400> 675

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<210> 676

<211> 784

<212> DNA

<213> Homo Sapiens

<400> 676

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<210> 677

<211> 1362

<212> DNA

<213> Homo Sapiens

<400> 677

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<210> 678

<211> 1771

<212> DNA

<213> Homo Sapiens

<400> 678

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<210> 679

<211> 1367

<212> DNA

<213> Homo Sapiens

<400> 679

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<210> 680

<211> 2545

<212> DNA

<213> Homo Sapiens

<400> 680

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<210> 681

<211> 1745

<212> DNA

<213> Homo Sapiens

<400> 681

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<210> 682

<211> 1745

<212> DNA

<213> Homo Sapiens

<400> 682

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<210> 683

<211> 3127

<212> DNA

<213> Homo Sapiens

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<210> 684
<211> 803
<212> PRT
<213> Homo Sapiens

<400> 684

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Lys	Ala	Thr	Ile	Pro	Glu	Val	Lys	Asn	Ser	Glu	Asn	Ser	Ser	Ser	Arg
			35					40					45		
Gln	Val	Ser	Ala	Asn	Asn	Gln	Phe	Ser	Ile	Thr	Lys	Asn	Arg	Asp	Gly
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Arg	Glu	Asn	Arg	Arg	Arg	Asn	Ser	Lys	Ile	Gly	Asp	Asp	Asn	Glu	Asn
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Leu	Thr	Phe	Lys	Leu	Glu	Val	Asn	Glu	Leu	Ser	Gly	Lys	Leu	Asp	Asn
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Thr	Asn	Glu	Tyr	Asn	Ser	Asn	Asp	Gly	Lys	Lys	Leu	Pro	Gln	Gly	Glu
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Ser	Arg	Ser	Tyr	Glu	Val	Met	Gly	Ser	Met	Glu	Glu	Thr	Leu	Cys	Asn
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Ile	Asp	Asp	Arg	Asp	Gly	Asn	Arg	Asn	Val	His	Leu	Glu	Phe	Thr	Glu
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Arg	Glu	Ser	Arg	Lys	Asp	Gly	Glu	Asp	Glu	Phe	Val	Lys	Glu	Met	Arg
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Ala	Ser	Arg	Glu	Glu	Lys	Val	Leu	Met	Asp	Glu	Gly	Ala	Val	Leu	Thr
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Leu	Ala	Ala	Asp	Leu	Ser	Ser	Ala	Thr	Leu	Asp	Ile	Ser	Lys	Gln	Trp
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Ser	Asn	Val	Phe	Asn	Ile	Leu	Arg	Glu	Asn	Asp	Phe	Glu	Pro	Lys	Phe
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Leu	Cys	Glu	Val	Lys	Leu	Ala	Phe	Lys	Cys	Asp	Gly	Glu	Ile	Lys	Thr
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Phe	Ser	Asp	Leu	Gln	Ser	Leu	Arg	Lys	Phe	Ala	Ser	Gln	Lys	Ser	Ser
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Met	Xaa	Xaa	Leu	Leu	Xaa	Asp	Val	Leu	Pro	Gln	Lys	Glu	Glu	Ile	Asn
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Gln	Gly	Gly	Arg	Lys	Tyr	Gly	Ile	Gln	Glu	Lys	Arg	Asp	Lys	Thr	Leu
				275			280					285			
Ile	Asp	Ser	Xaa	His	Arg	Ala	Gly	Glu	Ile	Thr	Ser	Asp	Gly	Leu	Ser
				290			295					300			
Phe	Leu	Phe	Leu	Lys	Glu	Val	Lys	Val	Ala	Lys	Pro	Glu	Glu	Met	Lys
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Glu	Glu	Ala	Ser	Gly	Met	Glu	Asp	Asp	Glu	Asp	Thr	Ser	Gly	Leu	Glu
				340				345					350		
Glu	Glu	Glu	Glu	Glu	Glu	Ala	Ser	Gly	Leu	Glu	Glu	Asp	Xaa	Ser	Ser
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Xaa	Leu	Glu	Glu	Glu	Glu	Glu	Gln	Thr	Ser	Glu	Gln	Asp	Ser	Thr	Phe
				370			375					380			
Xaa	Gly	His	Thr	Leu	Val	Asp	Ala	Lys	His	Glu	Val	Glu	Ile	Thr	Ser

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Xaa	Gly	Met	Glu	Thr	Thr	Phe	Ile	Asp	Ser	Val	Glu	Asp	Ser	Glu
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Glu	Glu	Glu	Glu	Glu	Gly	Lys	Ser	Ser	Glu	Thr	Gly	Lys	Val	Lys
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Thr	Ser	Leu	Thr	Glu	Lys	Lys	Ala	Ser	Arg	Arg	Gln	Lys	Glu	Ile
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Phe	Ser	Tyr	Leu	Val	Gly	Asp	Ser	Gly	Lys	Lys	Lys	Leu	Val	Lys
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Gln	Val	Val	His	Lys	Thr	Gln	Glu	Glu	Glu	Glu	Thr	Ala	Val	Pro
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Ser	Gln	Gly	Thr	Gly	Thr	Thr	Cys	Leu	Thr	Leu	Cys	Leu	Ala	Ser
					485					490				495
Ser	Lys	Ser	Leu	Glu	Met	Ser	His	Asp	Glu	His	Lys	Lys	His	Ser
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Thr	Asn	Leu	Ser	Ile	Ser	Thr	Gly	Val	Thr	Lys	Leu	Lys	Lys	Thr
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Glu	Lys	Lys	His	Arg	Thr	Leu	His	Thr	Glu	Glu	Leu	Thr	Ser	Lys
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Ala	Asp	Leu	Thr	Glu	Glu	Thr	Glu	Glu	Asn	Leu	Arg	Ser	Ser	Val
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Asn	Ser	Ile	Arg	Glu	Ile	Lys	Glu	Glu	Ile	Gly	Asn	Leu	Lys	Ser
					565					570				575
His	Ser	Gly	Val	Leu	Glu	Ile	Glu	Asn	Ser	Val	Asp	Asp	Leu	Ser
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Arg	Met	Asp	Ile	Leu	Glu	Glu	Arg	Ile	Asp	Ser	Leu	Glu	Asp	Gln
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Glu	Glu	Phe	Ser	Lys	Asp	Thr	Met	Gln	Met	Thr	Lys	Gln	Ile	Ile
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Lys	Glu	Gly	Pro	Arg	Asp	Ile	Glu	Glu	Arg	Ser	Arg	Ser	Cys	Asn
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Arg	Leu	Ile	Gly	Ile	Pro	Glu	Lys	Glu	Ser	Tyr	Glu	Asn	Arg	Ala
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Asp	Ile	Ile	Lys	Glu	Ile	Ile	Asp	Glu	Asn	Phe	Ala	Glu	Leu	Lys
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Gly	Ser	Ser	Leu	Glu	Ile	Val	Ser	Ala	Cys	Arg	Val	Pro	Ser	Lys
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Asp	Glu	Lys	Arg	Leu	Thr	Pro	Arg	His	Ile	Leu	Val	Lys	Phe	Trp
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Ser	Ser	Asp	Lys	Glu	Lys	Ile	Ile	Arg	Pro	Ser	Arg	Glu	Arg	Arg
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Ile	Thr	Tyr	Gln	Gly	Thr	Arg	Ile	Arg	Leu	Thr	Ala	Asp	Leu	Ser
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Asp	Thr	Leu	Asp	Ala	Arg	Ser	Lys	Trp	Ser	Asn	Val	Phe	Lys	Val
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Phe	Asp	Phe	Arg	Gly	Lys	Thr	Lys	Val	Phe	Leu	Ser	Ile	Glu	Glu
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Arg	Asp	Tyr	Val	Leu	His	Met	Pro	Thr	Leu	Arg	Glu	Leu	Leu	Gly
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Asn	Ile	Pro												

<210> 685

<211> 947
 <212> PRT
 <213> Homo Sapiens

<400> 685

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Gln	Tyr	Leu	Gln	Lys	Val	Val	Leu	Lys	Asp	Leu	Trp	Lys	His	Ser	Phe
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Ser	Trp	Pro	Phe	Gln	Arg	Pro	Val	Asp	Ala	Val	Lys	Leu	Lys	Leu	Pro
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Asp	Tyr	Tyr	Thr	Ile	Ile	Lys	Asn	Pro	Met	Asp	Leu	Asn	Thr	Ile	Lys
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Lys	Arg	Leu	Glu	Asn	Lys	Tyr	Tyr	Ala	Lys	Ala	Ser	Glu	Cys	Ile	Glu
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Asp	Phe	Asn	Thr	Met	Phe	Ser	Asn	Cys	Tyr	Leu	Tyr	Asn	Lys	Pro	Gly
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	115						120					125			
Lys	Leu	Ser	Gln	Met	Pro	Gln	Glu	Glu	Gln	Val	Val	Gly	Val	Lys	Glu
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Arg	Ile	Lys	Lys	Gly	Thr	Gln	Gln	Asn	Ile	Ala	Val	Ser	Ser	Ala	Lys
145					150					155				160	
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Gln	Gly	Ala	Ser	Val	Asn	Ser	Ser	Gln	Thr	Ala	Ala	Gln	Val	Thr	
	195					200						205			
Lys	Gly	Val	Lys	Arg	Lys	Ala	Asp	Thr	Thr	Thr	Pro	Ala	Thr	Ser	Ala
	210					215					220				
Val	Lys	Ala	Ser	Ser	Glu	Phe	Ser	Pro	Thr	Phe	Thr	Glu	Lys	Ser	Val
225					230						235			240	
Ala	Leu	Pro	Pro	Ile	Lys	Glu	Asn	Met	Pro	Lys	Asn	Val	Leu	Pro	Asp
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Ser	Gln	Gln	Gln	Tyr	Asn	Val	Val	Glu	Thr	Val	Lys	Val	Thr	Glu	Gln
			260					265					270		
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	275						280					285			
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Gly	Leu	His	Asn	Tyr	Tyr	Asp	Val	Val	Lys	Asn	Pro	Met	Asp	Leu	Gly
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Thr	Ile	Lys	Glu	Lys	Met	Asp	Asn	Gln	Glu	Tyr	Lys	Asp	Ala	Tyr	Ser
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Pro	Pro	Asp	His	Glu	Val	Val	Thr	Met	Ala	Arg	Met	Leu	Gln	Asp	Val
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	370					375					380				
Pro	Leu	Cys	Tyr	Ile	Lys	Thr	Asp	Ile	Thr	Glu	Thr	Thr	Gly	Arg	Glu
385					390					395					400

-357-

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850	855	860
Arg Asp Leu Gly Asn Gly Leu Thr Val	Glu Ser Phe Ser Asn Lys Ile	
865	870	875
Gln Asn Lys Cys Ser Gly Glu Glu Gln Lys Glu	His Pro Gln Ser Ser	880
885	890	895
Glu Ala Gln Asp Lys Ser Lys Leu Trp Leu Leu	Lys Asp Arg Asp Leu	
900	905	910
Ala Arg Pro Lys Glu Gln Glu Arg Arg Arg	Glu Ala Met Val Gly	
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<210> 686
 <211> 3106
 <212> DNA
 <213> Homo Sapiens

<400> 686

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<211> 1759

<212> DNA

<213> Homo Sapiens

<400> 687

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<210> 688
 <211> 207
 <212> PRT
 <213> Homo Sapiens

<400> 688

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 35          40          45
Thr Glu Ala Leu Ser Val Ser Gln Glu Arg Val Gly Met Ser Leu Val
 50          55          60
Ala Leu Lys Lys Ala Leu Ala Ala Ala Gly Tyr Asp Val Glu Lys Asn
 65          70          75          80
Asn Ser Arg Ile Lys Leu Ser Leu Lys Ser Leu Val Asn Lys Gly Ile
 85          90          95
Leu Val Gln Thr Arg Gly Thr Gly Ala Ser Gly Ser Phe Lys Leu Ser
100         105         110
Lys Lys Val Ile Pro Lys Ser Thr Arg Ser Lys Ala Lys Lys Ser Val
115         120         125
Ser Ala Lys Thr Lys Lys Leu Val Leu Ser Arg Asp Ser Lys Ser Pro
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Lys Thr Ala Lys Thr Asn Lys Arg Ala Lys Lys Pro Arg Ala Thr Thr
145         150         155         160
Pro Lys Thr Val Arg Ser Gly Arg Lys Ala Lys Gly Ala Lys Gly Lys
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<210> 689
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<400> 689

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<211> 363

<212> FRT

<213> Homo Sapiens

<400> 690

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 Glu Thr Leu Tyr Gln Lys Ala Asp Asp Gly Arg Pro Phe Pro Gln Val
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 Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly Val
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 Val Pro Leu Ala Gly Thr Asn Gly Glu Thr Thr Thr Gln Gly Leu Asp
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 Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser Ala
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 Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu Pro
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 Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys Val
 195 200 205
 Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu Glu
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 Arg Arg Thr Val Pro Pro Ala Val Thr Gly Ile Thr Phe Leu Ser Gly
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 <212> DNA
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 <212> DNA
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<211> 505

<212> PRT

<213> Homo Sapiens

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Thr	Ile	Thr	Asp	Ala	Pro	Gly	Phe	Asp	Pro	Leu	Arg	Asp	Ala	Glu
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 245 250 255
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 260 265 270
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 275 280 285
 Gly Thr Asp Glu Ala Cys Leu Ile Glu Ile Leu Ala Ser Arg Ser Asn
 290 295 300
 Glu His Ile Arg Glu Leu Asn Arg Ala Tyr Lys Ala Glu Phe Lys Lys
 305 310 315 320
 Thr Leu Glu Glu Ala Ile Arg Ser Asp Thr Ser Gly His Phe Gln Arg
 325 330 335
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 340 345 350
 Asp Met Ser Leu Ala Gln Arg Asp Ala Gln Glu Leu Tyr Ala Ala Gly
 355 360 365
 Glu Asn Arg Leu Gly Thr Asp Glu Ser Lys Phe Asn Ala Val Leu Cys
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 Ser Arg Ser Arg Ala His Leu Val Ala Val Phe Asn Glu Tyr Gln Arg
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 Thr Lys Asp Arg Thr Leu Ile Arg Ile Met Val Ser Arg Ser Glu Thr
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<210> 694

<211> 1141

<212> DNA

<213> Homo Sapiens

<400> 694

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<211> 288

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<213> Homo Sapiens

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<211> 1427

<212> DNA

<213> Homo Sapiens

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<210> 700

<211> 1967

<212> DNA

<213> Homo Sapiens

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<211> 3423

<212> DNA

<213> Homo Sapiens

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<211> 1106

<212> DNA

<213> Homo Sapiens

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<210> 703

<211> 1095

<212> DNA

<213> Homo Sapiens

<400> 703

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<210> 704

<211> 1968

<212> DNA

<213> Homo Sapiens

<400> 704

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<210> 705

<211> 800

<212> DNA

<213> Homo Sapiens

<400> 705

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<210> 706

<211> 487

<212> DNA

<213> Homo Sapiens

<400> 706

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actctccctt	caagtattct	acactttaat	ttcctgaaat	aaattttaag	aaaaggga	360
tagtaaaaga	gtaggaaatg	gtgcagcaca	ccagcatg	acatgaatac	acatgtaact	420
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<210> 707

<211> 3599

<212> DNA

<213> Homo Sapiens

<400> 707

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<210> 708

<211> 1123

<212> PRT

<213> Homo Sapiens

<400> 708

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Pro	Pro	Leu	Ser	Ser	His	Ala	Gln	Glu	Arg	His	Ser	Gly	Asn	Phe	Pro
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His	Ala	Val	Asp	Phe	Arg	Gly	Arg	Asp	Ala	Pro	Pro	Ser	Asp	Phe	Arg
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Gly	Arg	Gly	Thr	Tyr	Asp	Leu	Asp	Phe	Arg	Gly	Arg	Asp	Gly	Ser	His
		180					185					190			
Ala	Asp	Phe	Arg	Gly	Arg	Asp	Leu	Ser	Asp	Leu	Asp	Phe	Arg	Ala	Arg
		195				200						205			
Glu	Gln	Ser	Arg	Ser	Asp	Phe	Arg	Asn	Arg	Asp	Val	Ser	Asp	Leu	Asp
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Gly	Thr	Thr	Asp	Leu	Asp	Phe	Arg	Asp	Arg	Asp	Thr	Pro	His	Ser	Asp
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 Glu Met Gly Ser Cys Met Glu Phe Lys Asp Arg Glu Met Pro Pro Val
 275 280 285
 Asp Pro Asn Ile Leu Asp Tyr Ile Gln Pro Ser Thr Gln Asp Arg Glu
 290 295 300
 His Ser Gly Met Asn Val Asn Arg Arg Glu Glu Ser Thr His Asp His
 305 310 315 320
 Thr Ile Glu Arg Pro Ala Phe Gly Ile Gln Lys Gly Glu Phe Glu His
 325 330 335
 Ser Glu Thr Arg Glu Gly Glu Thr Gln Gly Val Ala Phe Glu His Glu
 340 345 350
 Ser Pro Ala Asp Phe Gln Asn Ser Gln Ser Pro Val Gln Asp Gln Asp
 355 360 365
 Lys Ser Gln Leu Ser Gly Arg Glu Glu Gln Ser Ser Asp Ala Gly Leu
 370 375 380
 Phe Lys Glu Glu Gly Gly Leu Asp Phe Leu Gly Arg Gln Asp Thr Asp
 385 390 395 400
 Tyr Arg Ser Met Glu Tyr Arg Asp Val Asp His Arg Leu Pro Gly Ser
 405 410 415
 Gln Met Phe Gly Tyr Gly Gln Ser Lys Ser Phe Pro Glu Gly Lys Thr
 420 425 430
 Ala Arg Asp Ala Gln Arg Asp Leu Gln Asp Gln Asp Tyr Arg Thr Gly
 435 440 445
 Pro Ser Glu Glu Lys Pro Ser Arg Leu Ile Arg Leu Ser Gly Val Pro
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 Glu Asp Ala Thr Lys Glu Glu Ile Leu Asn Ala Phe Arg Thr Pro Asp
 465 470 475 480
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 485 490 495
 Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser Leu Leu Glu Asp Ala Ile
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 Gly Cys Met Glu Ala Asn Gln Gly Thr Leu Met Ile Gln Asp Lys Glu
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 Cys Lys Ala Asn Ile Gly Gly His Arg Ser Ser Cys Ser Phe Cys Lys
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 Asn Pro Arg Glu Val Thr Glu Ala Lys Gln Glu Leu Ile Thr Tyr Pro
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 Gln Pro Gln Lys Thr Ser Ile Pro Ala Pro Leu Glu Lys Gln Pro Asn
 580 585 590
 Gln Pro Leu Arg Pro Ala Asp Lys Glu Pro Glu Pro Arg Lys Arg Glu
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 Glu Gly Gln Glu Ser Arg Leu Gly His Gln Lys Arg Glu Ala Glu Arg
 610 615 620
 Tyr Leu Pro Pro Ser Arg Arg Glu Gly Pro Thr Phe Arg Arg Asp Arg
 625 630 635 640
 Glu Arg Glu Ser Trp Ser Gly Glu Thr Arg Gln Asp Gly Glu Ser Lys
 645 650 655
 Thr Ile Met Leu Lys Arg Ile Tyr Arg Ser Thr Pro Pro Glu Val Ile
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 Ile Ile Lys Asn Arg Thr Gly Pro Met Gly His Thr Tyr Gly Phe Ile

690	695	700
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705	710	715
Asn Leu Asp Pro Pro Phe Ser Ile Asp Gly Lys Met Val Ala Val Asn		
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Leu Ala Thr Gly Lys Arg Arg Asn Asp Ser Gly Asp His Ser Asp His		
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Met His Tyr Tyr Gln Gly Lys Lys Tyr Phe Arg Asp Arg Arg Gly Gly		
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Gly Arg Asn Ser Asp Trp Ser Ser Asp Thr Asn Arg Gln Gly Gln Gln		
	770	775
Ser Ser Ser Asp Cys Tyr Ile Tyr Asp Ser Ala Ser Gly Tyr Tyr Tyr		
785	790	795
Asp Pro Leu Ala Gly Thr Tyr Tyr Asp Pro Asn Thr Gln Gln Glu Val		
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Tyr Val Pro Gln Asp Pro Gly Leu Pro Glu Glu Glu Ile Lys Glu		
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Lys Lys Pro Thr Ser Gln Gly Lys Ser Ser Ser Lys Lys Glu Met Ser		
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Lys Arg Asp Gly Lys Glu Lys Lys Asp Arg Gly Val Thr Arg Phe Gln		
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Pro Leu Pro Pro Thr Val Lys Lys Glu Glu Ser Pro Pro Pro Lys		
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Val Val Asn Pro Leu Ile Gly Leu Leu Gly Glu Tyr Gly Gly Asp Ser		
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945	950	955
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Ser Asp Leu His Lys Gln Asn Leu Glu Ile His Arg Lys Ile Lys Gln		
	980	985
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<210> 800

<211> 364

<212> PRT

<213> Homo Sapiens

<400> 800

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Thr Glu Asn Thr Glu Glu Asn Arg Arg Phe Tyr Arg Gln Leu Leu Leu
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Thr Ala Asp Asp Arg Val Asn Pro Cys Ile Gly Val Ile Leu Phe
65 70 75 80
His Glu Thr Leu Tyr Gln Lys Ala Asp Asp Gly Arg Pro Phe Pro Gln
85 90 95
Val Ile Lys Ser Lys Gly Gly Val Val Gly Ile Lys Val Asp Lys Gly
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Val Val Pro Leu Ala Gly Thr Asn Gly Glu Thr Thr Thr Gln Gly Leu
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Asp Gly Leu Ser Glu Arg Cys Ala Gln Tyr Lys Lys Asp Gly Ala Asp
130 135 140
Phe Ala Lys Trp Arg Cys Val Leu Lys Ile Gly Glu His Thr Pro Ser
145 150 155 160
Ala Leu Ala Ile Met Glu Asn Ala Asn Val Leu Ala Arg Tyr Ala Ser
165 170 175
Ile Cys Gln Gln Asn Gly Ile Val Pro Ile Val Glu Pro Glu Ile Leu
180 185 190
Pro Asp Gly Asp His Asp Leu Lys Arg Cys Gln Tyr Val Thr Glu Lys
195 200 205
Val Leu Ala Ala Val Tyr Lys Ala Leu Ser Asp His His Ile Tyr Leu
210 215 220
Glu Gly Thr Leu Leu Lys Pro Asn Met Val Thr Pro Gly His Ala Cys
225 230 235 240

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Thr Gln Lys Phe Ser His Glu Glu Ile Ala Met Ala Thr Val Thr Ala
 245 250 255
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 Gly Gly Gln Ser Glu Glu Glu Ala Ser Ile Asn Leu Asn Ala Ile Asn
 275 280 285
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<210> 801

<211> 3504

<212> DNA

<213> Homo Sapiens

<400> 801

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<210> 802
 <211> 429
 <212> PRT
 <213> Homo Sapiens

<400> 802

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Thr	Gln	Phe	Asp	Val	Lys	Asn	Asp	Arg	Tyr	Ile	Val	Asn	Gly	Ser	His
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Glu	Ala	Asn	Lys	Leu	Gln	Asp	Met	Leu	Asp	Gly	Phe	Ile	Lys	Lys	Phe
			85					90					95		
Val	Leu	Cys	Pro	Glu	Cys	Glu	Asn	Pro	Glu	Thr	Asp	Leu	His	Val	Asn
			100					105					110		
Pro	Lys	Lys	Gln	Thr	Ile	Gly	Asn	Ser	Cys	Lys	Ala	Cys	Gly	Tyr	Arg
			115				120					125			
Gly	Met	Leu	Asp	Thr	His	His	Lys	Leu	Cys	Thr	Phe	Ile	Leu	Lys	Asn
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Glu	Gln	Ile	Lys	Lys	Tyr	Arg	Arg	His	Phe	Leu	Arg	Phe	Cys	His	Asn				
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Ala	Met	His	Gln	Ala	Gln	Leu	Ile	Ser	Lys	Ile	Pro	His	Ile	Leu	Lys				
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Glu	Met	Tyr	Asp	Ala	Asp	Leu	Leu	Glu	Glu	Glu	Val	Ile	Ile	Ser	Trp				
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Ser	Glu	Lys	Ala	Ser	Lys	Lys	Tyr	Val	Ser	Lys	Glu	Leu	Ala	Lys	Glu				
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Glu	Glu	Ser	Ser	Gly	Gly	Glu	Glu	Glu	Asp	Glu	Asp	Glu	Asn	Ile	Glu				
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405										410					415				
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<210> 803
<211> 2251
<212> DNA
<213> Homo Sapiens
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<400> 803									
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<210> 804

<211> 609

<212> PRT

<213> Homo Sapiens

<400> 804

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 35          40          45
Ile Ala Phe Ala Gln Tyr Leu Gln Gln Cys Pro Phe Glu Asp His Val
 50          55          60
Lys Leu Val Asn Glu Val Thr Glu Phe Ala Lys Thr Cys Val Ala Asp
 65          70          75          80
Glu Ser Ala Glu Asn Cys Asp Lys Ser Leu His Thr Leu Phe Gly Asp
 85          90          95
Lys Leu Cys Thr Val Ala Thr Leu Arg Glu Thr Tyr Gly Glu Met Ala
100         105         110
Asp Cys Cys Ala Lys Gln Glu Pro Glu Arg Asn Glu Cys Phe Leu Gln
115         120         125
His Lys Asp Asp Asn Pro Asn Leu Pro Arg Leu Val Arg Pro Glu Val
130         135         140
Asp Val Met Cys Thr Ala Phe His Asp Asn Glu Thr Phe Leu Lys
145         150         155         160
Lys Tyr Leu Tyr Glu Ile Ala Arg Arg His Pro Tyr Phe Tyr Ala Pro
165         170         175
Glu Leu Leu Phe Phe Ala Lys Arg Tyr Lys Ala Ala Phe Thr Glu Cys
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Cys Gln Ala Ala Asp Lys Ala Ala Cys Leu Leu Pro Lys Leu Asp Glu

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Glu Met Pro Ala Asp Leu Pro	Ser Leu Ala Ala Asp Phe	Val Glu Ser
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Ala Phe Val Glu Lys Cys Cys	Lys Ala Asp Asp Lys Glu	Thr Cys Phe
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Leu		

<210> 805

<211> 1356
<212> DNA
<213> Homo Sapiens

<400> 805

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tgaggcaatg attttattaa cagcgttta ttttaattta caacttttaa aaggcagagc      1140
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<210> 806
<211> 299
<212> PRT
<213> Homo Sapiens

<400> 806

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Met Ser Ser Ile Lys Ile Glu Cys Val Leu Pro Glu Asn Cys Arg Cys
1          5          10          15
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20          25          30
Asp Ile Pro Ala Lys Lys Val Cys Arg Trp Asp Ser Phe Thr Lys Gln
35          40          45
Val Gln Arg Val Thr Met Asp Ala Pro Val Ser Ser Val Ala Leu Arg
50          55          60
Gln Ser Gly Gly Tyr Val Ala Thr Ile Gly Thr Lys Phe Cys Ala Leu
65          70          75          80
Asn Trp Lys Glu Gln Ser Ala Val Val Leu Ala Thr Val Asp Asn Asp
85          90          95
Lys Lys Asn Asn Arg Phe Asn Asp Gly Lys Val Asp Pro Ala Gly Arg
100         105         110
Tyr Phe Ala Gly Thr Met Ala Glu Glu Thr Ala Pro Ala Val Leu Glu
115         120         125
Arg His Gln Gly Ala Leu Tyr Ser Leu Phe Pro Asp His His Val Lys
130         135         140
Lys Tyr Phe Asp Gln Val Asp Ile Ser Asn Gly Leu Asp Trp Ser Leu
145         150         155         160

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Asp His Lys Ile Phe Tyr Tyr Ile Asp Ser Leu Ser Tyr Ser Val Asp
 165 170 175
 Ala Phe Asp Tyr Asp Leu Gln Thr Gly Gln Ile Ser Asn Arg Arg Ser
 180 185 190
 Val Tyr Lys Leu Glu Lys Glu Glu Gln Ile Pro Asp Gly Met Cys Ile
 195 200 205
 Asp Ala Glu Gly Lys Leu Trp Val Ala Cys Tyr Asn Gly Gly Arg Val
 210 215 220
 Ile Arg Leu Asp Pro Val Thr Gly Lys Arg Leu Gln Thr Val Lys Leu
 225 230 235 240
 Pro Val Asp Lys Thr Thr Ser Cys Cys Phe Gly Gly Lys Asn Tyr Ser
 245 250 255
 Glu Met Tyr Val Thr Cys Ala Arg Asp Gly Met Asp Pro Glu Gly Leu
 260 265 270
 Leu Arg Gln Pro Glu Ala Gly Gly Ile Phe Lys Ile Thr Gly Leu Gly
 275 280 285
 Val Lys Gly Ile Ala Pro Tyr Ser Tyr Ala Gly
 290 295

<210> 807

<211> 1980

<212> DNA

<213> Homo Sapiens

<400> 807

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caaaacagaa ctgctctcat gcttgggtgc gagtatggtt gtaaggatgc tgtagaagtc	660
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tacatgctag atgaagtaaa tgtgaagtca agtcagaggg agcatcgaaa cattcaggag	900
ctggagattg aaaaatgaaga ttgaaaagac aggttgagaa aaattcagca agaacagaga	960
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<210> 808

<211> 659

<212> PRT

<213> Homo Sapiens

<400> 808

Met	Pro	Ser	Ser	Leu	Leu	Leu	Ala	Thr	Arg	Asn	Gln	Ile	Leu	Ser	Met
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			20					25					30		
Trp	Asn	Lys	Tyr	Asp	Asp	Arg	Leu	Met	Lys	Ala	Ala	Glu	Arg	Gly	Asp
			35				40					45			
Val	Glu	Lys	Val	Ser	Ser	Ile	Leu	Ala	Lys	Lys	Gly	Ile	Asn	Pro	Gly
	50					55					60				
Lys	Leu	Asp	Val	Glu	Gly	Arg	Ser	Ala	Phe	His	Val	Val	Ala	Ser	Lys
65						70				75				80	
Gly	Asn	Leu	Glu	Cys	Leu	Asn	Ala	Ile	Leu	Ile	His	Gly	Val	Asp	Ile
				85				90					95		
Thr	Thr	Ser	Asp	Thr	Ala	Gly	Arg	Asn	Ala	Leu	His	Leu	Ala	Ala	Lys
			100					105					110		
Tyr	Gly	His	Ala	Leu	Cys	Leu	Gln	Lys	Leu	Leu	Gln	Tyr	Asn	Cys	Pro
			115				120					125			
Thr	Glu	His	Ala	Asp	Leu	Gln	Gly	Arg	Thr	Ala	Leu	His	Asp	Ala	Ala
			130				135					140			
Met	Ala	Asp	Cys	Pro	Ser	Ser	Ile	Gln	Leu	Leu	Cys	Asp	His	Gly	Ala
145					150					155				160	
Ser	Val	Asn	Ala	Lys	Asp	Val	Asp	Gly	Arg	Thr	Pro	Leu	Val	Leu	Ala
				165				170					175		
Thr	Gln	Met	Cys	Arg	Pro	Ala	Ile	Cys	Gln	Leu	Leu	Ile	Asp	Arg	Gly
			180					185					190		
Ala	Glu	Ile	Asn	Ser	Arg	Asp	Lys	Gln	Asn	Arg	Thr	Ala	Leu	Met	Leu
			195				200					205			
Gly	Cys	Glu	Tyr	Gly	Cys	Lys	Asp	Ala	Val	Glu	Val	Leu	Leu	Lys	Asn
			210				215					220			
Gly	Ala	Asp	Val	Ser	Leu	Leu	Asp	Ala	Leu	Gly	His	Asp	Ser	Ser	Tyr
225					230					235				240	
Tyr	Ala	Arg	Ile	Gly	Asp	Asn	Leu	Asp	Ile	Leu	Thr	Leu	Leu	Lys	Thr
			245						250					255	
Ala	Ser	Glu	Asn	Thr	Asn	Lys	Gly	Arg	Glu	Leu	Trp	Lys	Lys	Gly	Pro
			260				265						270		
Ser	Leu	Gln	Gln	Arg	Asn	Leu	Pro	Tyr	Met	Leu	Asp	Glu	Val	Asn	Val
			275				280					285			
Lys	Ser	Ser	Gln	Arg	Glu	His	Arg	Asn	Ile	Gln	Glu	Leu	Glu	Ile	Glu
			290				295					300			
Asn	Glu	Asp	Leu	Lys	Asp	Arg	Leu	Arg	Lys	Ile	Gln	Gln	Glu	Gln	Arg
305					310					315				320	
Ile	Leu	Leu	Asp	Lys	Val	Asn	Gly	Leu	Gln	Leu	Gln	Leu	Asn	Glu	Glu
			325						330					335	
Val	Met	Val	Ala	Asp	Asp	Leu	Glu	Ser	Glu	Lys	Glu	Lys	Leu	Lys	Ser
			340					345					350		
Leu	Leu	Val	Ala	Lys	Glu	Lys	Gln	His	Glu	Glu	Ser	Leu	Arg	Thr	Ile

355	360	365
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370	375	380
Val Pro Ala His Met Gln Ser Arg Ser Met Leu Arg Pro Leu Glu Leu		
385	390	395
Ser Leu Pro Asn Gln Thr Ser Tyr Ser Glu Asn Asp Leu Leu Lys Lys		
405	410	415
Glu Leu Glu Ala Met Arg Thr Phe Cys Glu Ser Ala Lys Gln Asp Arg		
420	425	430
Leu Lys Leu Gln Asn Gly Val Ala His Lys Val Ala Glu Cys Lys Ala		
435	440	445
Leu Gly Leu Glu Cys Glu Arg Ile Lys Glu Asp Ser Asp Glu Gln Ile		
450	455	460
Lys Gln Leu Glu Asp Ala Leu Lys Asp Val Gln Lys Arg Met Tyr Glu		
465	470	475
Ser Glu Gly Lys Val Lys Gln Met Gln Thr His Phe Leu Ala Leu Lys		
485	490	495
Glu His Leu Thr Ser Glu Ala Ala Ile Gly Asn His Arg Leu Met Glu		
500	505	510
Glu Leu Lys Asp Gln Leu Lys Asp Met Lys Ala Lys Tyr Glu Gly Ala		
515	520	525
Ser Ala Glu Val Gly Lys Leu Arg Asn Gln Ile Lys Gln Asn Glu Leu		
530	535	540
Leu Val Glu Gln Phe Arg Arg Asp Glu Gly Lys Leu Val Glu Glu Asn		
545	550	555
Lys Arg Leu Gln Lys Glu Leu Ser Met Cys Glu Thr Glu Arg Asp Lys		
565	570	575
Lys Gly Arg Arg Val Ala Glu Val Glu Gly Gln Val Lys Glu Leu Leu		
580	585	590
Ala Lys Leu Thr Leu Ser Val Pro Thr Glu Lys Phe Glu Ser Met Lys		
595	600	605
Ser Leu Leu Ser Ser Glu Val Asn Glu Lys Val Lys Lys Ile Gly Glu		
610	615	620
Thr Glu Arg Glu Tyr Glu Lys Ser Leu Thr Glu Ile Arg Gln Leu Arg		
625	630	635
Arg Glu Leu Glu Asn Cys Lys Arg Gln Thr Ser Ser Ala Cys Gln Ala		
645	650	655
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<210> 809

<211> 1725

<212> DNA

<213> Homo Sapiens

<400> 809

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aatgggaccg ttctcagctc cagtggaaacc aggtttgctg tgaactttca gactggcttc	240
agtggaaatg acattgcctt ccacttcaac cctcggtttg aagatggagg gtacgtgggtg	300
tgcaacacga ggcagaacgg aagctggggg ccgagggaga ggaagacaca catgcctttc	360
cagaagggga tgccctttga cctctgcttc ctgggtgcaga gctcagattt caaggtgatg	420
gtgaacggga tctctcttgt gcagtacttc caccgcgtgc ccttcaccg tgtggacacc	480
atctccgtca atggctctgt gcagctgtcc tacatcagct tccagaacct ccgcacagtc	540

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cagacagtca tccacacagt gcagagcgc cctggacaga tgttctctac tcccgccatc 720
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<210> 810

<211> 355

<212> PRT

<213> Homo Sapiens

<400> 810

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Val Asn Gly Thr Val Leu Ser Ser Gly Thr Arg Phe Ala Val Asn
35 40 45
Phe Gln Thr Gly Phe Ser Gly Asn Asp Ile Ala Phe His Phe Asn Pro
50 55 60
Arg Phe Glu Asp Gly Gly Tyr Val Val Cys Asn Thr Arg Gln Asn Gly
65 70 75 80
Ser Trp Gly Pro Glu Glu Arg Lys Thr His Met Pro Phe Gln Lys Gly
85 90 95
Met Pro Phe Asp Leu Cys Phe Leu Val Gln Ser Ser Asp Phe Lys Val
100 105 110
Met Val Asn Gly Ile Leu Phe Val Gln Tyr Phe His Arg Val Pro Phe
115 120 125
His Arg Val Asp Thr Ile Ser Val Asn Gly Ser Val Gln Leu Ser Tyr
130 135 140
Ile Ser Phe Gln Asn Pro Arg Thr Val Pro Val Gln Pro Ala Phe Ser
145 150 155 160
Thr Val Pro Phe Ser Gln Pro Val Cys Phe Pro Pro Arg Pro Arg Gly
165 170 175
Arg Arg Gln Lys Pro Pro Gly Val Trp Pro Ala Asn Pro Ala Pro Ile
180 185 190
Thr Gln Thr Val Ile His Thr Val Gln Ser Ala Pro Gly Gln Met Phe
195 200 205
Ser Thr Pro Ala Ile Pro Pro Met Met Tyr Pro His Pro Ala Tyr Pro
210 215 220

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Met Pro Phe Ile Thr Thr Ile Leu Gly Gly Leu Tyr Pro Ser Lys Ser
225          230          235          240
Ile Leu Leu Ser Gly Thr Val Leu Pro Ser Ala Gln Arg Phe His Ile
          245          250          255
Asn Leu Cys Ser Gly Asn His Ile Ala Phe His Leu Asn Pro Arg Phe
          260          265          270
Asp Glu Asn Ala Val Val Arg Asn Thr Gln Ile Asp Asn Ser Trp Gly
          275          280          285
Ser Glu Glu Arg Ser Leu Pro Arg Lys Met Pro Phe Val Arg Gly Gln
          290          295          300
Ser Phe Ser Val Trp Ile Leu Cys Glu Ala His Cys Leu Lys Val Ala
305          310          315          320
Val Asp Gly Gln His Leu Phe Glu Tyr Tyr His Arg Leu Arg Asn Leu
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Pro Thr Ile Asn Arg Leu Glu Val Gly Gly Asp Ile Gln Leu Thr His
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Val Gln Thr
          355

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<210> 811

<211> 1022

<212> DNA

<213> Homo Sapiens

<400> 811

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aagaagaggg cctgggacctg gtgggtgcac aggcctctac tactgaggag caggaggctg      180
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cagcagatcc tccccagagt cctcagggag cctctgcctt acccactacc atcagcttca      300
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cgcttgacgc agagtctctg ttccgagaag cactcagtaa caaggtggat gagttggctc      420
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gagtcaccaa aaattacaag cgctgcttct ctgtgatctt cgggcaagcc tccgagtcct      540
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tggtgaaac cagctatgtg aaagtcctgg agcatgtggt cagggtcaat gcaagagttc      960
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<210> 812

<211> 317

<212> PRT

<213> Homo Sapiens

<400> 812

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Met Ser Leu Glu Gln Lys Ser Gln His Cys Lys Pro Glu Glu Gly Val
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          20          25          30
Thr Glu Glu Gln Glu Ala Ala Val Ser Ser Ser Ser Pro Leu Val Leu

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35					40					45						
Gly	Thr	Leu	Glu	Lys	Val	Pro	Ala	Ala	Glu	Ser	Ala	Asp	Pro	Pro	Gln	
50					55					60						
Ser	Pro	Gln	Gly	Ala	Ser	Ala	Leu	Pro	Thr	Thr	Ile	Ser	Phe	Thr	Cys	
65					70					75					80	
Trp	Arg	Gln	Pro	Asn	Glu	Gly	Ser	Ser	Ser	Gln	Glu	Glu	Glu	Glu	Ala	
85					90					95						
Ser	Thr	Ser	Pro	Asp	Ala	Glu	Ser	Leu	Phe	Arg	Glu	Ala	Leu	Ser	Asn	
100					105					110						
Lys	Val	Asp	Glu	Leu	Ala	His	Phe	Leu	Leu	Arg	Lys	Tyr	Arg	Ala	Lys	
115					120					125						
Glu	Leu	Val	Thr	Lys	Ala	Glu	Met	Leu	Glu	Arg	Val	Ile	Lys	Asn	Tyr	
130					135					140						
Lys	Arg	Cys	Phe	Pro	Val	Ile	Phe	Gly	Lys	Ala	Ser	Glu	Ser	Leu	Lys	
145					150					155					160	
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165					170					175						
Tyr	Thr	Leu	Val	Thr	Cys	Leu	Gly	Leu	Ser	Tyr	Asp	Gly	Leu	Leu	Gly	
180					185					190						
Asn	Asn	Gln	Ile	Phe	Pro	Lys	Thr	Gly	Leu	Leu	Ile	Ile	Val	Leu	Gly	
195					200					205						
Thr	Ile	Ala	Met	Glu	Gly	Asp	Ser	Ala	Ser	Glu	Glu	Glu	Ile	Trp	Glu	
210					215					220						
Glu	Leu	Gly	Val	Met	Gly	Val	Tyr	Asp	Gly	Arg	Glu	His	Thr	Val	Tyr	
225					230					235					240	
Gly	Glu	Pro	Arg	Lys	Leu	Leu	Thr	Gln	Asp	Trp	Val	Gln	Glu	Asn	Tyr	
245					250					255						
Leu	Glu	Tyr	Arg	Gln	Val	Pro	Gly	Ser	Asn	Pro	Ala	Arg	Tyr	Glu	Phe	
260					265					270						
Leu	Trp	Gly	Pro	Arg	Ala	Leu	Ala	Glu	Thr	Ser	Tyr	Val	Lys	Val	Leu	
275					280					285						
Glu	His	Val	Val	Arg	Val	Asn	Ala	Arg	Val	Arg	Ile	Ala	Tyr	Pro	Ser	
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<210> 813

<211> 5175

<212> DNA

<213> Homo Sapiens

<400> 813

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gaaaaactgc	caqtgaaact	attctcaacc	tttcaagacc	tqctctcaatc	aggaacgaag	780

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 <211> 1392
 <212> PRT
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<400> 814

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Glu Thr Gln Glu Glu Phe Val Asp Asp Phe Arg Val Gly Glu Arg Val
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Trp Val Asn Gly Asn Lys Pro Gly Phe Ile Gln Phe Leu Gly Glu Thr
65 70 75 80
Gln Phe Ala Pro Gly Gln Trp Ala Gly Ile Val Leu Asp Glu Pro Ile
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Gly Lys Asn Asp Gly Ser Val Ala Gly Val Arg Tyr Phe Gln Cys Glu
100 105 110
Pro Leu Lys Gly Ile Phe Thr Arg Pro Ser Lys Leu Thr Arg Lys Val
115 120 125
Gln Ala Glu Asp Glu Ala Asn Gly Leu Gln Thr Thr Pro Ala Ser Arg
130 135 140
Ala Thr Ser Pro Leu Cys Thr Ser Thr Ala Ser Met Val Ser Ser Ser
145 150 155 160
Pro Ser Thr Pro Ser Asn Ile Pro Gln Lys Pro Ser Gln Pro Ala Ala
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Lys Glu Pro Ser Ala Thr Pro Pro Ile Ser Asn Leu Thr Lys Thr Ala
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Ser Glu Ser Ile Ser Asn Leu Ser Glu Ala Gly Ser Ile Lys Lys Gly
195 200 205
Glu Arg Glu Leu Lys Ile Gly Asp Arg Val Leu Val Gly Gly Thr Lys

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Val Ala Gly Thr Arg	Tyr Phe Gln Cys Gln Pro	Lys Tyr Gly Leu Phe
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Gln His Val Leu Glu	Glu Glu Ala Lys Met	Asp Gln Leu Arg Thr Met
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Val Glu Ala Ala Asp	Arg Glu Lys Val Glu	Leu Leu Asn Gln Leu Glu
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Asp Met Ser Leu Ser	Leu Leu Gln Glu Ile	Ser Ser Leu Gln Glu Lys
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Ser Lys Leu Glu His	Ala Asn Lys Glu Asn	Ser Asp Val Ile Ala Leu
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Trp Lys Ser Lys Leu	Glu Thr Ala Ile Ala	Ser His Gln Gln Ala Met
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Glu Glu Leu Lys Val	Ser Phe Ser Lys Gly	Leu Gly Thr Glu Thr Ala
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Gln His Glu Ile Glu	Asn Leu Gln Asn Gln	Gln Asp Ser Glu Arg Ala
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Ala His Ala Lys Glu	Met Glu Ala Leu Arg	Ala Lys Leu Met Lys Val
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 Lys Ala Glu Asp Gln His Leu Val Glu Met Glu Asp Thr Leu Asn Lys
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 850 855 860
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 885 890 895
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	1285	1290
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Cys	Ala	His	Asp	Trp	Val	Tyr	Glu								
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